

SEDLAR, Ladislav, inz.

Use of perlite sand in the building industry. Tech praca 14
no.12:998-1000 D '62.

1. Slovenska vysoka skola technicka, Bratislava.

SEDLAR, M.

Bazing on spot-welding machines; also, remarks by B. Vrana. p. 114.
ZVARANIE Vol. 5, No. 4, Apr. 1956
Czechislovakia

SOURCE: EAST EUROPEAN LISTS Vol. 5, No. 7, July 1956

SEDLAR, N.

Improving the capacity of high-speed steels by heating with steam. p. 49.

STROJNISKI VASNIK. (Fakulteta za elektrotehniko in strojnistvo Univerze v Ljubljani, Institut za turostroje v Ljubljani, Drustvo strojnih inzenirjev in tehnikov LR Slovenije in Strojna industrija Slovenije.) Ljubljana, Yugoslavia. Vol. 5, no. 2, Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Unc.l.

SEDLAR, V.

13922* Use of Complexones in Chemical Analysis. (In English) Part XII. Determination of Tungsten by Means of 8-Hydroxyquinoline. R. Pribil and V. Sylar. Part XIII. Potentiometric Determination of Certain Cations by Means of "Complexone III" Solution. R. Pribil, Z. Koundela, and B. Matyska. Part XIV. Review of Some New Methods of Separation and Estimation. R. Pribil. Collection of Czechoslovak Chemical Communications, v. 16, Feb. 1, 1951, p. 99-91.

Part XII deals with the determination of tungsten as the oxinate and its separation from other elements. Part XIII describes direct potentiometric titration of iron, iron and an indirect titration of Al, Cd, Pb, Zn, Cu, and Bi. A procedure is given for the complexometric estimation Fe and Al in the presence of each other. Part XIV describes reactions with some common compounds. Advantages of complexing reagents in quantitative analysis are demonstrated. 20 ref.

AMSLA METALLURGICAL LITERATURE CLASSIFICATION

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1

UHLÍK, Jaroslav; VELÍKÝ, Miroslav; ŠEDLÁŘÍK, Karel; MHUZEK, Maxmilian;
DOLINA, Jiří; RICHTER, Josef

Replacement of a part of the wall of the urinary bladder with terylene
tissue prosthesis. Sr. med. fac. med. Brno. 35 no.4:161-164 '62.

I. II. chir. klinika v Brně, prednosta prof. dr. Jan Navratil II.
gynekolog. klinika v Brně, prednosta doc. dr. Uher.
(BLADDER surgery) (PLASTICS)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1"

COUNTRY : CZECHOSLOVAKIA H
CATEGORY : Chemical Technology. Chemical Products and
Their Applications. Water Treatment. Sewage.
ABS. JOUR. : RZKhim., No. 23 1959, No. 82652
AUTHOR : Prokunek, K.; Sedlarik, L.; Hos, F.
INST. : -
TITLE : Sanitary-Hygienic Evaluation of Drinking Water
Used in the Rural Sections of the Gotwald
Oblast.
ORIG. PUB. : Sb. Ceskosl. akad. zemed. ved. veterin. med.,
1959, 4, No 2, 105-114
ABSTRACT : No abstract.

CARD:

1/1

DITTERTOVA, V.; BURAN, L.; BABULOVA, A.; SELECKY, F.V.; technicka spolupraca
SEDLAROVA, B.; NEMECEK, V.

Effect of oxyphylline on the cardiotoxic activity of convallatoxin
and helveticoside and on their action on the heart-lung preparation
of the cat. Cesk. farm. 12 no.2:104-107 F '62.

1. CSAV, Chemicky ustav SAV, oddelenie farmakodynamiky, Bratislava.
(HEART) (LUNG) (THEOPHYLLINE) (CARDIAC GLYCOSIDES)
(CONVALLARIA)

L 14894-66

ACC NR: AP6008342

SOURCE CODE: CZ/0049/65/000/003/0181/0184

AUTHOR: Mitterhauszerova, Ludmila--Mittergauszerova, L. (Engineer; Bratislava); Ginterova, Anastazia (Graduate biochemist, Candidate of science; Bratislava); Sedlarova, Ludmila (Doctor, Candidate of science; Bratislava)

ORG: Research Institute of the Alcohol and Food Preserving Industry, Bratislava (Vyskumny ustav liehovarsko-konzervarenskeho priemyslu) 14

TITLE: Influence of selection upon the agglutination of baker's yeast B

SOURCE: Biologia, no. 3, 1965, 181-184

TOPIC TAGS: yeast, heredity, food technology

ABSTRACT: The heredity of the property of agglutination of baker's yeast was verified by making fourfold selection in commercial yeast and investigating the products. When the selection was made, so that an increased tendency to agglutination would be maintained, the occurrence of agglutinating isolates was increased from 10.4% to 42.9%, and the non-agglutinating isolates fell from 48.7% to 19.5%. In selection favoring non-agglutinized isolates their content increased from 48.7% to 55.4%, and the content of the agglutinized isolates decreased from 10.4 to 3.1%. Orig. art. has: 3 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 04Nov64 / ORIG.REF: 001 / OTH REF: 005

Card 1/1 *mp*

2

L 14895-66

ACC NR: AP6008350

SOURCE CODE: CZ/0049/65/000/004/0287/0293

14

AUTHOR: Sedlarova, Ludmila (Doctor; Bratislava)

ORG: Research Institute of Distilleries and Food Canneries, Bratislava
(Vyskumný ustav liehovarskeho a konzervarenskeho priemyslu) B

TITLE: Possibilities and importance of the control of species purity of yeast
by genetic analysis

SOURCE: Biologia, no. 4, 1965, 287-293

TOPIC TAGS: yeast, fermentation, carbohydrate, genetics

Morphological
ABSTRACT:
character of the cells and of giant colonies, sporulation ability,
assimilation and fermentation of fructose, galactose, maltose,
and sucrose, and of raffinose were studied. Cultures form Sac-
charomyces oviformis Osterwalder from the collection of the Chem-
ical Institute of the Slovak Academy of Sciences at Bratislava
were used. It was found that two monocultures from different ascii
partially fermented galactose, which may indicate a long term
adaptation; practically all spore monocultures showed sporulation
ability. Giant colonies showed identical spore monocultures, which
could indicate the probable diploid character of these cultures.

Card 1/2

2

L 14895-66
ACC NR: AP6008350

E. Bocava, A. Friedlova, M. Kubinecova, and H. Vlckova participated in the technical work. Orig. art. has: 2 figures and 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 04Nov64 / ORIG REF: 002 / OTH REF: 008

Card 2/2

MITTERHAUSEROVA, Ludmila; GINTEROVA, Anastazia; SEDLAROVA, Ludmila

The effect of selection on the agglutination of baker's yeast.
Biologia (Bratisl) 20 no.3:181-184 '65

I. Vyskumny ustav liehovarsko-konzervarenskeho priemyslu v
Bratislave.

SEDLAROVA, Ludmila

Possibilities and significance of generic purity of yeasts by
means of genetic analysis. Biologia (Bratisl) 20 no.4:287-293
'65.

1. Vyskumný ustav liehovarskeho a konzervarenskeho priemyslu
v Bratislave.

RAPONSKI, B.; ATANASOVA, R.kh.; ALTUNKOVA, M.; SEDLARSKI, D.

Difficulties in the differential diagnosis of acute surgical abdomen
in children. Khirurgiia, Sofia 13 no.7/8:638-648 '60.

I. Institut za burza meditsinska pomosht "N.I.Pirogov," Sofia.
Gl.lekar: Khr. Zdravkov.
(ABDOMEN ACUTE in inf & child)

SEDLECKY, O. ; Svoboda, K.

Securing an earthwork cutting. p. 242.

INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha, Czechoslovakia.
Vol. 7, no. 7, July 1959

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 11, Nov. 1959
Uncl.

SEBLECKY, Otakar, inz.; PROCHAZKA, Antonin

Problems and prospects of mining and processing noble stones.
Geol pruzkum 6 no. 7:195-197 Jl '64.

1. Research Institute of Building Construction, Prague.

KVASNIKOV, A.V., professor; SEDLENOK, G.I.; LARIONOV, G.Ye., tekhnicheskiy redaktor.

[Working cycles and energy balances in aircraft engines] Protsessy i balansy v aviamotornykh ustroystvakh. Moskva, Oborongiz, Glav. redaktsiya aviatsionnoi lit-ry, 1948. 256 p. [Microfilm] (MLRA 7:11) (Airplanes--Engines)

BAGIROV, G.; SEDEL'NIKOV, G.S.; RAZADE, P.F.

APPROVED FOR RELEASE 08/23/2000 CIA-RDP86-00513R001447620006-1
Solvability of MgCl₂ in H₂O and MgCl₂ - H₃BO₃ - H₂O at 25°. Azerb.khim.zhur. no.4, 105-109 (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii imeni Kurnakova
AN SSSR. Submitted May 23, 1964.

SOV-109-3-6-16/27

AUTHOR: Sedletskaya, N. S.

TITLE: Phase of the Reflection Coefficient in a Short-Circuited Waveguide with Ferrite (Faza koefitsiyenta otrazheniya v zakorochennom volnovode s ferritom)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 6,
pp 829-831 (USSR)

ABSTRACT: Ferrites, when magnetised, can be employed to change the resonant frequency of the cavity resonators in the centimetre waveband. The magnitude of the frequency change or the detuning can be estimated by determining the phase of the reflection coefficient in a short circuited waveguide provided with a volume of ferrite. In the work described, the change of the phase of the reflection coefficient was determined from the displacement of the minimum of the standing wave in a measuring line which was loaded with a rectangular waveguide section containing the ferrite and the shorting plunger. The losses were estimated from the standing wave ratio. The measurements were carried out at a wavelength of 9.24 cm and the magnetic samples were either aluminium-magnesium ferrites or ferrite-dielectric plates. The ferrite samples were in the form of a bar having dimensions 68 x 9.5 x 2.5 mm. The results of the measure-

Card 1/3

SOV-109-3-6-16/27

Phase of the Reflection Coefficient in a Short-Circuited Waveguide
with Ferrite

ments are shown in Figs.1, 2 and 3. Fig.1 shows the phase change as a function of a distance d for both ferrite samples at a magnetising field of 680 Oe. Fig.2 shows the phase (the upper graph) and the standing wave ratio (the lower graph) as a function of the magnetising field for various positions of the sample with respect to the shorting plunger; the ferrite sample in this case was a compound dielectric-ferrite plate. Fig.3 shows the phase change as a function of the distance l of the ferrite plate from the plunger for a magnetising field of 680 Oe. The author expresses her gratitude to Assistant Professor A. I. Pil'shchikov for directing this work and for valuable

Card 2/3

SOV-109-3-6-16/27

Phase of the Reflection Coefficient in a Short-Circuited Waveguide
with Ferrite

remarks in interpreting the results. There are 3 figures
and 4 references, 2 of which are English and 2 Soviet.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo
universiteta im. M. V. Lomonosova (Department of Physics of the
Moscow State University im. M. V. Lomonosov)

SUBMITTED: February 23, 1957

1. Waveguides - Properties 2. Waveguides - Performance

Card 3/3

ACC NR: AP6036958

ful to I. I. Sil'vestrovich and V. A. Krasnova for supplying the samples and also to O. K. Besedina and I. B. Krynetskaya for participating in the measurements. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 11Mar66/ OTH REF: 002

Card 2/2

ACC NR: AP602196

(A)

SOURCE CODE: UR/0188/66/000/002/0069/0076

AUTHOR: Pil'shnikov, A. I.; Sedletskaya, N. S.

ORG: Department of Radio Engineering, Moscow State University (Kafedra radiotekhniki Moskovskogo gosudarstvennogo universiteta)

TITLE: Influence of natural ferromagnetic resonance on nonlinear losses in ferrites

SOURCE: Moscow. Universitet. Vestnik. Seriya III. Fizika, astronomiya, no. 2, 1966, 69-76

TOPIC TAGS: ferrite, ferromagnetic resonance, waveguide loss, phase shifter, magnetic domain structure

ABSTRACT: The authors investigated the nonlinear losses in a ferrite phase shifter of the Reggia-Spencer type operating at high power level, as a function of the closeness of the operating frequency to the frequency of the natural ferromagnetic resonance. The reason for the investigation was the complicated behavior of this phase shifter, due to the fact that some of its parts are under the influence of high frequency fields of unequal intensity or orientation, and that it operates usually in weak constant magnetic fields, when the domain structure plays an important role. The tests were made at 10 cm wavelength, using a pulsed magnetron as the generator. The pulse duration was 1 μ sec and the repetition frequency was 10 to 3 cps to eliminate the influence of thermal effects. The loss defined as the difference between the in-

UDC: 621.372.852.22.01

Card 1/2

ACC NR: AP6021946

cident and transmitted power. The ferrite rod was of rectangular cross section, and was placed in the center of a rectangular waveguide, filling it completely in height. The longitudinal magnetic field ranged from 0 to 30 Oe. The tests were made with MgCr ferrites of five different compositions. The results show that the nonlinear losses, as well as the linear properties, depend essentially on the closeness of the operating frequency to the frequency of ferromagnetic resonance in the presence of a domain structure. When the ferromagnetic resonance frequency is far from the operating frequency, the nonlinear phenomena are weak. On approaching resonance, the threshold power decreases and the nonlinear losses increase. Comparison of the results with measurements made on small spheres having different domain structures show that for compositions with small magnetization and fine grain the domain structure has no effect on the threshold, whereas in samples with large magnetization and large grain the threshold is lowered in fields smaller than saturation. The nonlinearity loss is also influenced by the increase of the magnetic permeability when resonance is approached. To determine the true mechanism of variation of nonlinear phenomena near ferromagnetic resonance in an unsaturated sample it is necessary to investigate the nonlinear phenomena in the same composition under the magnetostatic approximation conditions. The authors thank V. N. Bokov for participating with the measurements and I. I. Sil'vestrovich, and V. A. Krasnova for supplying all the samples and the list of their characteristics. Orig. art. has: 6 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 09Nov64/ ORIG REF: 001/ OTH REF: 005

Card 2/2

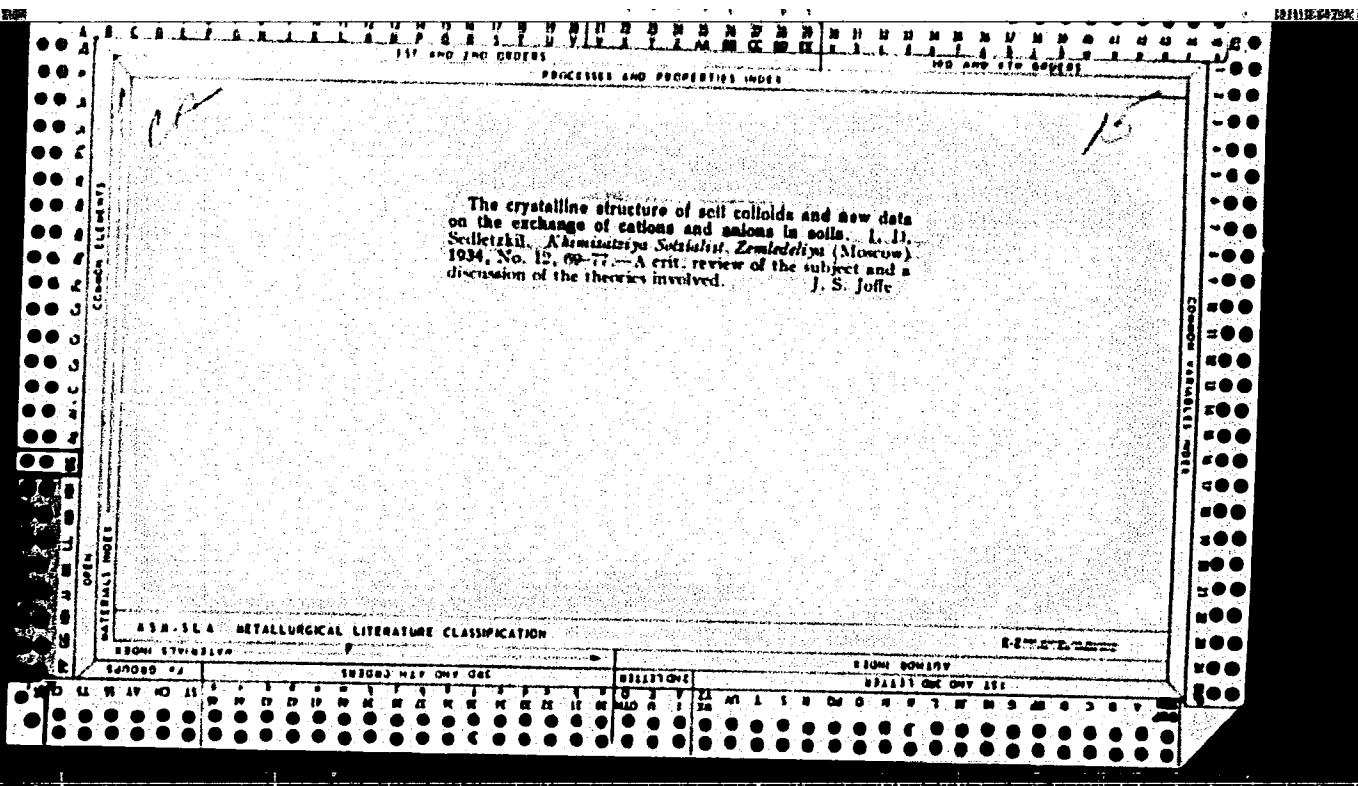
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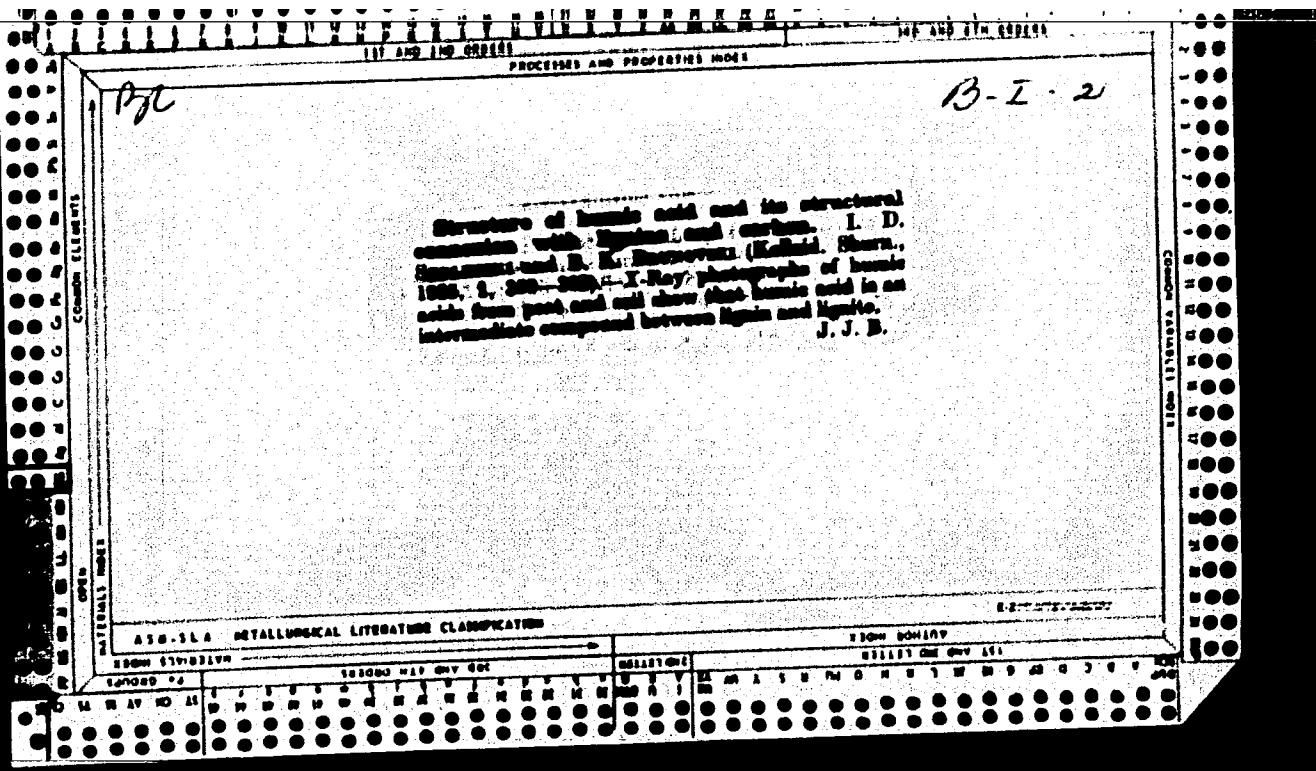
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D271/D308

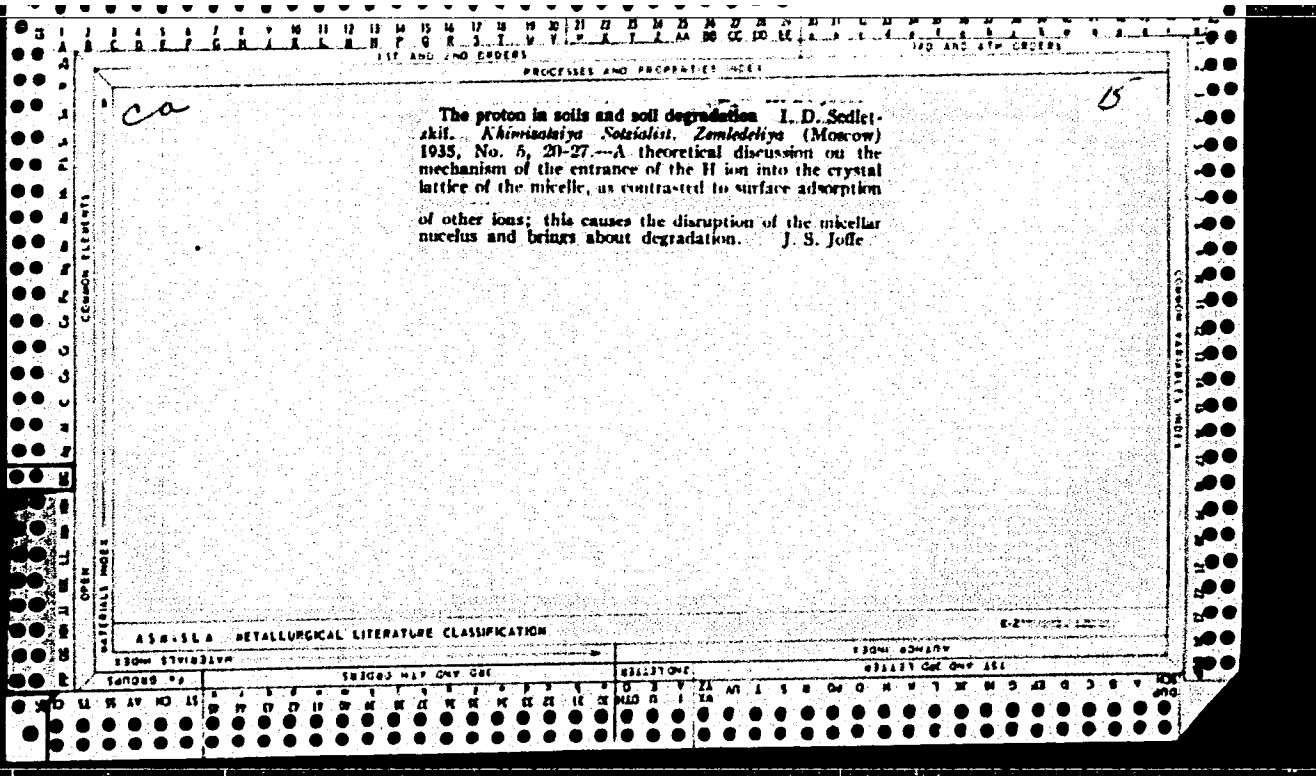
9.2571'

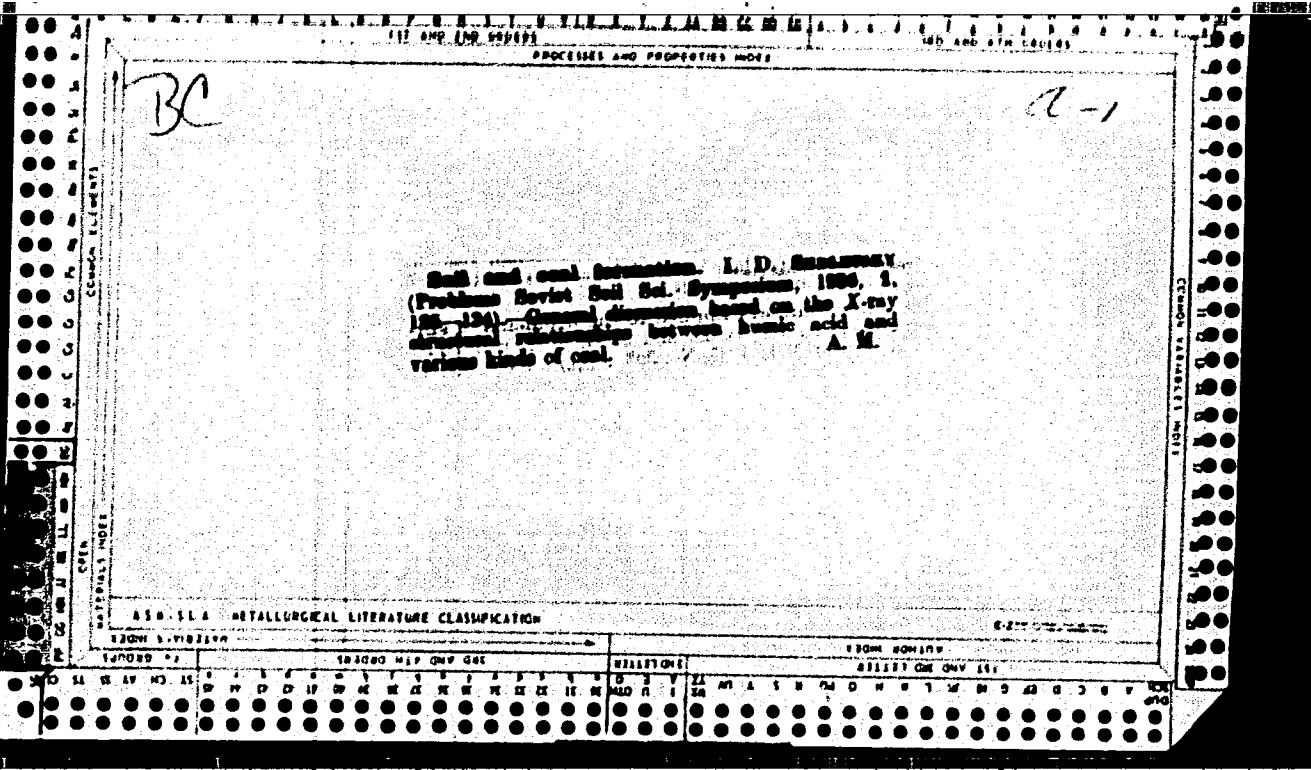
AUTHORS: Pil'shchikov, A. I., Dunayev, N. M. and Sedletskaya,
N. S.TITLE: Magnetostatic oscillations of the magnetization in a
hollow cylindrical ferrite rodPERIODICAL: Radiotekhnika i elektronika, v. 7, no. 7, 1962,
1123-1129TEXT: The spectrum of magnetostatic modes is analyzed for a hollow
ferrite rod with conducting planes at its ends. Resonance
starting with magnetostatic equations for the magnetization and
field strength, differential potential equations are written out,
inside and outside ferrite, and solved in Bessel functions. The
results of computations are shown in graphs, for rods having the
ratio of diameters of 0.5 and the ratio of length to outer diameter
of 3. Instantaneous distribution of magnetization over the
cross-section of the rod is shown for various modes; if the HF
magnetization distribution is known, the field configuration can

Card 1/2









The structure of naphthalene acid and its structural connections with lignin and coal. I. D. Sedletskii and N. K. Brunnvinskii. *Zhur. inst. Lomonosovskogo gosudarstven. chistoj i prikladnoj khim.*, No. 8, 81-89 (in German 60) (1930).—See *C. A.* 30, 2087. A. A. Podgorny

21

ABSTRACTS OF METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001447620006-1"

20

Humus as a natural body and humic acid as its natural expression. I. Sedletskii. *Chemisation Sociistic Agr.* (U. S. S. R.) 1936 No. 11, 77-87.—S. reviews the work of Wakeman on humus, pointing out that the "lignin-protein complexes" and the "humic acid" are one and the same. The steps in the process of humus formation are summarized as follows: (1) The complete mineralization of several compounds, (e.g.,) with the formation of CO_2 , H_2O , CH_4 , NO_x and mineral salts, (2) The formation of new simple compounds, from the products of decomposition, (3) The transformation of some substances which are not very stable under certain thermodynamic conditions into other substances which are more stable, (4) The formation of new complex compounds: (a) synthesis of products of decomposition, (b) making the simple compounds, more complex. (5) The appearance of organo-inorg. chem. and adsorption compds. (6) The formation of org. and inorg. compds. in the living organism through the agency of the living organism. A crit. discussion of his own and of a no. of other concepts on humus is given. J. S. Jodé

15

830.36.8 METALLURGICAL LITERATURE CLASSIFICATION

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CIA-RDP86-00513R001447620006-1"

B C

12

Chemical of *colloidal minerals* in salt solutions. *Sovremennye i novye zadaniya I. N. Astrov-* *Kazakovova i L. D. Serebrnikova* (*Contemp. reseach Acad.* *U.R.S.S., 1957, No. 77, 184-200*).—In order to elucidate the conditions responsible for the formation of colloidal minerals having a high alkali content, experiments on artificial mineral precipitation were made. A solution of salt, formed by mixing pure liquid glass dissolved in NaCl with Na_2CO_3 , was dried, and after 3 years was shown, by the Dubrova-Schlesinger X-ray powder method, to have developed a complex crystal structure. The substance is unchanged when heated to 100° , and is regarded as a new mineral of high alkali content not removable by H_2O_2 .

N. M. B.

III-14. METALLURGICAL LITERATURE CLASSIFICATION

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DATA SHEET NO. 1

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APPROVED FOR RELEASE: 08/23/2000

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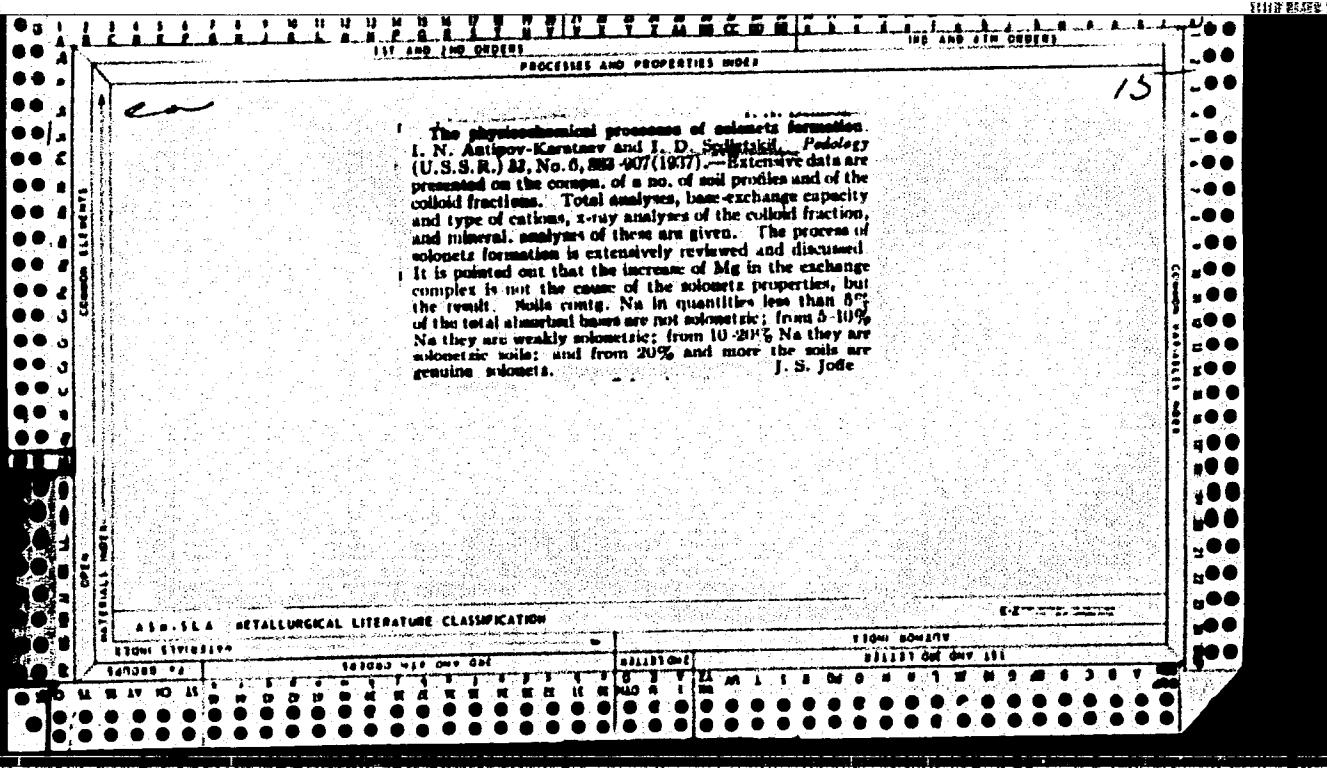
General of mineral from soil colloids of the montmorillonite group. I. D. Selleck, U.S. Geol. Surv., and G. A. Noll, U.S. Pat. No. 3,737,711 (1973) (In Germany). I. Noll, U.S. Pat. No. 3,737,711 (1973) (In Germany).
29. 1971(1972) 30, 33609. Microscopic and x-ray examination of aged amorphous Al silicate gels show that montmorillonite is formed at room temp. by spontaneous crystallization of gels having the approx. compn. of the natural mineral.

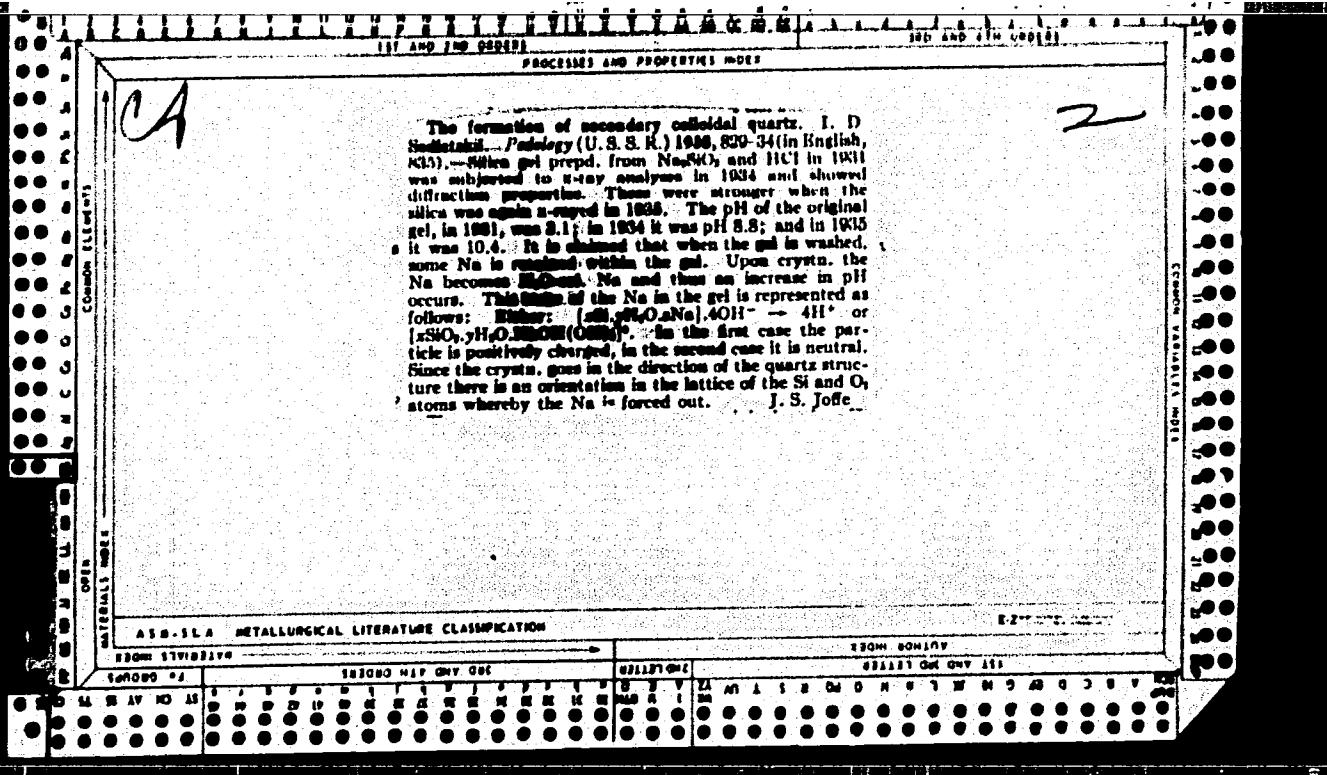
W. J. Hill

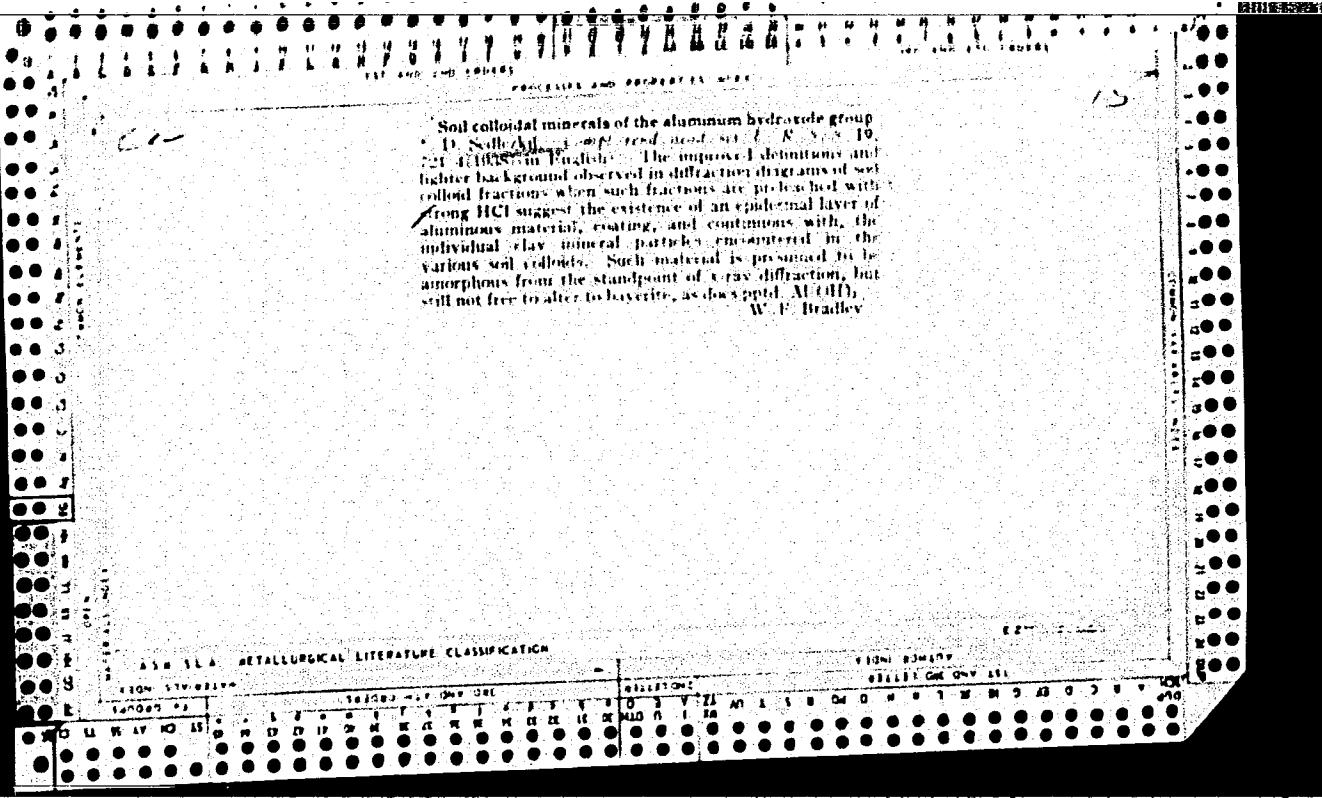
ASR-11A METALLURGICAL LITERATURE CLASSIFICATION

EDITION 1970

Version 1970

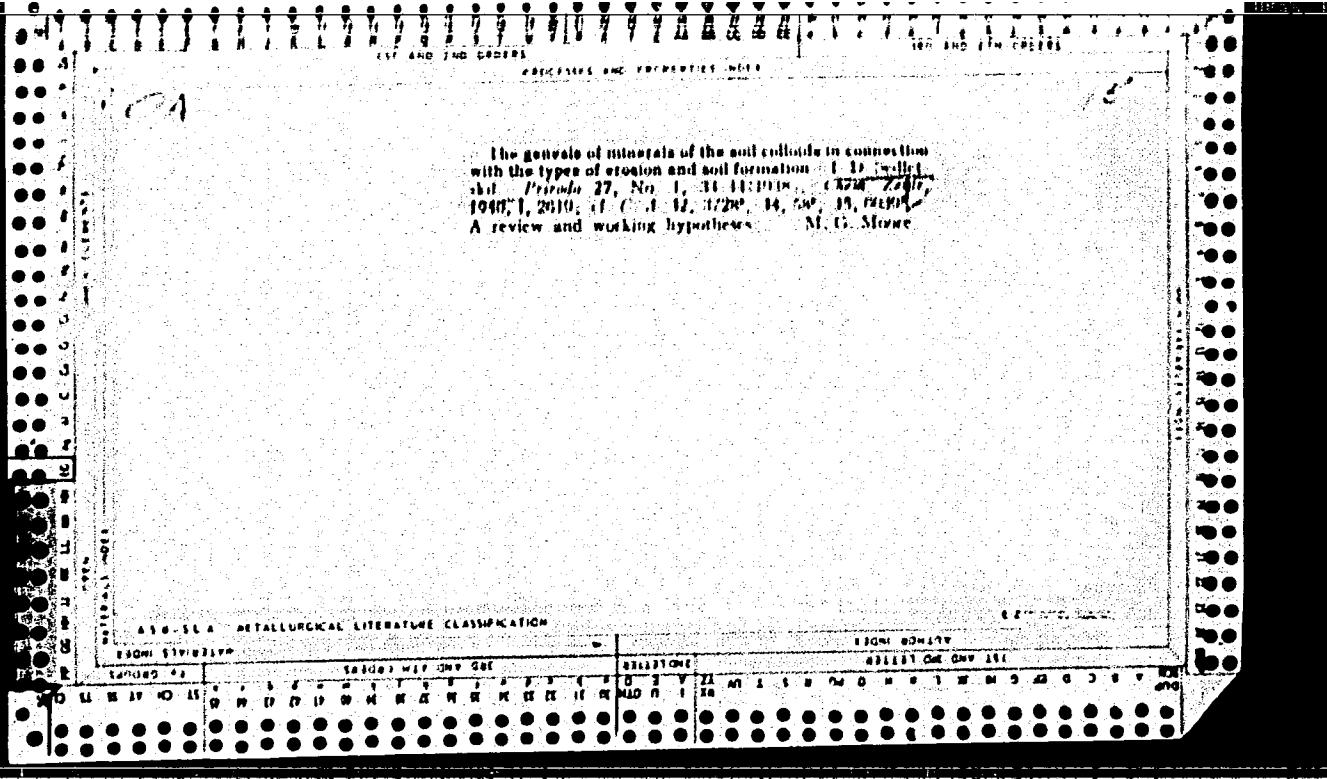






Metastable forms of minerals in soda. I. D. Sodick
and Paraskev. 26, No. 12, 70 (1938).
1936, 1, 1231; cf. 1937, 14, 1307. Since the
formation of stable soil minerals often passes through the
amorphous initial stage, very different metastable crypto-
intermediate stages are to be expected. This is shown by
the appearance of at first indistinct lines in the Debye
x-ray photographs.

M. G. Moon



Theoretical mineralogy of soil colloids *petrology*
 I. Soil colloids. *Miner. et petr.* 67, 1962, 20
 T. V. CONFLAND. *Zhurn. Zem.* 1959, III, 122.
 Two main classes of minerals found in soils are to be distinguished: mineraloids of old building mother rock, eruptive rocks, metamorphic rocks, argillites and colloidal minerals, pedosilicates, humic silicates and oxides of Al, Fe and Si. The latter have been little studied. Furthermore, they are present in a state of continuous development. Kaolinite, halloysite and pyrophyllite are formed under acid conditions; montmorillonite under alk. Sometimes montmorillonite is present under acid conditions and kaolinite and alk.; this is attributed to the fact that the separate particles are surrounded by an amorphous weathering layer, which protects them from further attack. The structure of the separate soil particles is varied. There is a variety of cores and envelopes in the individual micelles, which yield a picture as to the origin of the soil. In the course of time these amorphous envelopes may take up corresponding crystal lattices. M. V. Confland.

ASCE-SEA METALLURGICAL LITERATURE CLASSIFICATION

Classification of colloidal minerals of soils
Sofitskii, Fradkov, S. S. R.S. 1939, No. 1, 90.
Khim. Referat. Zhur. 1959, No. 7, 50-17, cf. C.I. 34,
101. The soil colloidal minerals (pedoflocces) are divided
into 3 groups according to the character of their compounds:
colloidal inorg. minerals (pedofloccates), org. colloidal
minerals (humoflocces) and org.-mineral colloidal minerals
(humofloccates). S. considers that gels are the initial
form of the colloidal particles. They are crystal through
a no. of intermediate forms over stable crystals. Any
mineral can be in an amorphous state (inertialites), in
an unstable state of crystal structure (quastabilites) and
of a crystal structure which is stable under the given con-
ditions (stabilites). W. R. Helm

ASA SEA METALLURGICAL LITERATURE CLASSIFICATION

CA

X-ray investigations of coals. L. D. Sedletskii. Soviet Pat. No. 6, 18, 631 (1959); Khim. Prom., 1959, No. 10, 46-7. The brown coals contain only the nuclei of graphite structure surrounded by a large no. of groups, mainly of hydroxides. The fossil coals contain large crystals of graphite structure devoid of surrounding groups, but still sep'd. from one other; their orientation leads to the formation of the graphite structure. X-ray photographs show that 6-member rings are the basis of the coal structures; "thread-like structure (characteristic of cellulose) was not found in the x-ray photographs of any coals. The carbohydrate and protein structures are not preserved in coal. The lignin spectrum is similar to the coal spectrum.

W. R. Henn

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

The sandy soils of the Kama River terraces. A. A. Rode and I. D. Selskikh. *Trans. Vses. Akad. Nauk SSSR*, U. S. S. R., 1970, No. 2, 21-31. Translated from English, 1970, 10, 1-10.

Three sandy soil podzol profiles of 3 different river terraces were fractionated by the Sabanin method and the chem. compn. of each fraction was recorded and interpreted. A new mineral isolated from the 0.001 mm. fraction was named "podzolite" and described. The x-ray data and differential thermal analysis curves show that this mineral is not similar to any of the minerals known. The compn. of podzolite is $(Mg, K)(Al, Si)_{2}O_{5} \cdot 2H_2O$. L. S. Joffe.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001447620006-1"

PROPERTIES AND OCCURRENCE OF...

General of montmorillonite and kaolinite and conditions of their joint occurrence in the colloids of soils and clays. I. D. Selleckskij. *Geol. russ. i sov. zeml. R. N. S. 22*, 510-14 (1939) (in English); cf. *ibid.* 32, 3728. The minerals montmorillonite, beidellite and sericrete constitute the colloids of alk. "solonetz" soils, whereas minerals of the kaolin group are found in the acid "podzol" soils. Solonetz soils from Trans-Volga, the Caspian plain, middle Asia and the Cherkass district, and podzol soils from the Kalinin district, the Moscow district and Kamaichka were investigated. Montmorillonite prevailed in a soda-solonetz whereas beidellite was present in the upper portion of a sulfate-chloride solonetz. The process of desalinization of salt marshes results in a production of CaCO_3 from underlying gypsum. Beidellite is found above the gypsum

layers but not below them where the medium is slightly acid. In podzol soils derived from clays, any original montmorillonite is altered to kaolin, which was demonstrated on concretions from Tzirkus-Diun whose center was alk. and contained montmorillonite. That stratified underlying coal beds arg. and lignite contain kaolin clays was shown for the Uzbekistan deposits. Montmorillonite clays are located in regions which accumulate salt salts as in Caspian lowlands and the Crimean clays. In general, montmorillonite clays are found in accumulation solonetz regions, while kaolin clays occur in alluvial regions. — *Lester W. Strick*

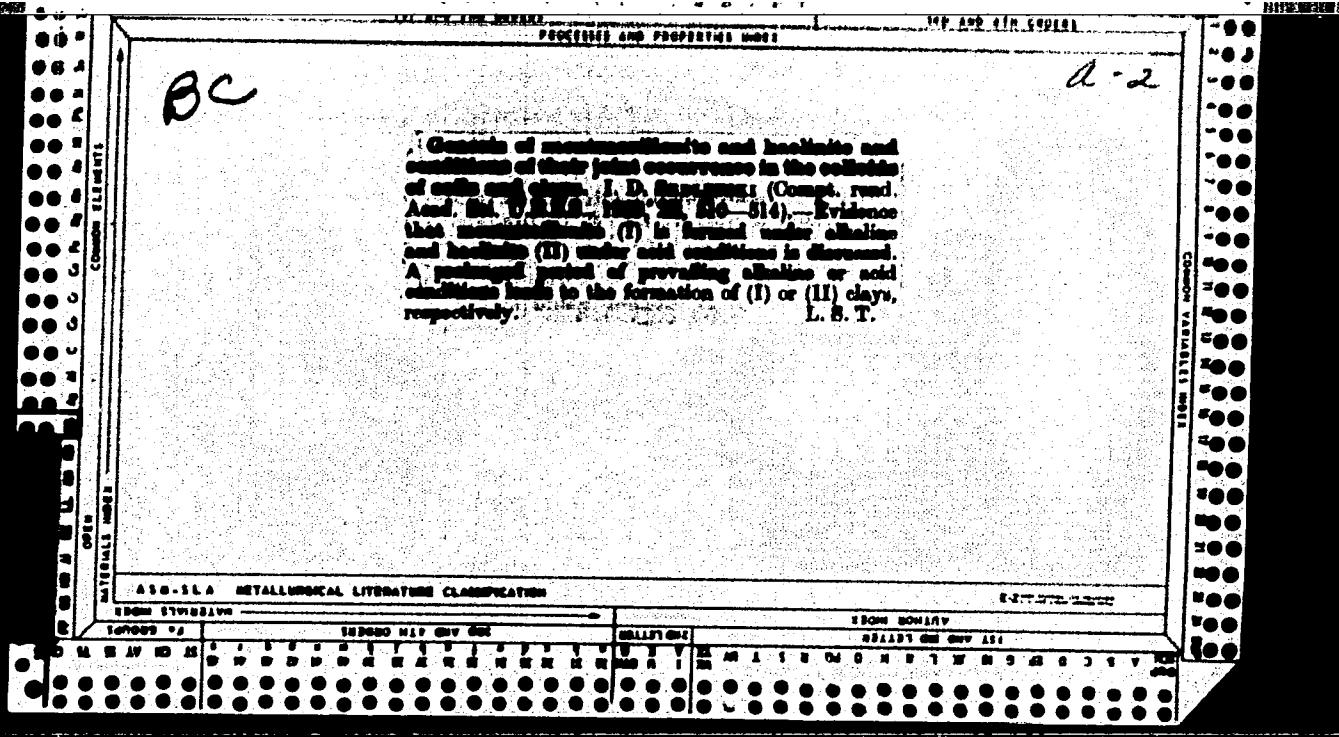
ASB-SEA METALLURGICAL LITERATURE CLASSIFICATION

GENERAL SUBJECT	SECTION AND SUB-CAT.	ITEM NO.	ITEM NO.
GENERAL			
METALLURGY			
MINING			
INDUS. CHEM.			
INDUS. ECON.			
INDUS. POL.			
INDUS. MACH.			
INDUS. CONSTR.			
INDUS. MATER.			
INDUS. EQUIP.			
INDUS. PROC.			
INDUS. TEST.			
INDUS. APP.			
INDUS. MACH.			
INDUS. CONSTR.			
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INDUS. EQUIP.			
INDUS. PROC.			
INDUS. TEST.			
INDUS. APP.			
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PRINCIPAL AND SUBORDINATE HORIZONS

Absorbing complex of soil—a paragenetic system of colloidal minerals. [1, 2] Svetlichny, *Geop. zeml. soi*, ser. I, K., N. N., 23, 248-65 (1959) (in English). The major colloid of the soil are composed of definite clay minerals (pedofloes) and are neither ochrites nor pisolites. Different soils result from different soil forming processes. Typical pedofloes of Russian alkali soils are verhoxyte, montmorillonite (I), beidellite and muscovite (II), those of podzol series are kaolinite, dickite, micaite, quartz and limonite. Thus pedofloes of the montmorillonite group are typical of alkali soils and those of the kaolin group, acid soils. Soda alkali soils contain chiefly I and II, mafic chernozem contains in addition halloysite and residual sercite and kerolite. The presence of I in certain chernozems and northern podzols indicates initial swamp-meadow development. During podzol development, the alkali pedofloes gradually decompose and are replaced by podzol-pedofloes. The compn. of pedofloes in different soils is not the result of a casual combination of minerals but is a definite, natural paragenetic assem. regularly distributed over the genetic horizons.

Nelson McKirg, Jr.



Gedrite in the alkali soils. J. D. Sellestam. *Compt. rend. acad. sci. U. R. S. S.* 23, 955 (1937) (in English); *J. A.* 32, 338 (1938). The principal x-ray lines of gedrite, $\text{Na}_2\text{Al}_2\text{Si}_5\text{O}_8 \cdot 2\text{H}_2\text{O}$, have not changed on aging since 1937 but new ones have appeared. Powdergram evidence is presented to show the presence of this material in the colloids (0.2-2 μ) of soda alkali-sil soil horizons.
D. W. Pearce

ASW-15A METALLURGICAL LITERATURE CLASSIFICATION

1A
15

Soil exchange cations and their geochemistry. I. D. Sjöberg. *Compt. rend. acad. sci. U. R. S. S.* 25, 277-281 (1939) (in English).—Only Ca, Mg, H, Na and K (in order of decreasing occurrence in soils) are the principal exchange cations of the soil adsorptive complex. Other metals are either not in the exchange condition or are in insignificant quantities; even K occurs in the exchange state only in negligibly small amounts. The exchange cations are irregularly distributed with regard to soil type: in black soils they are mainly Ca and Mg; in podzol soils 80-90% of the exchange val. is H; 20-40% Ca and Mg; in solonetz soils Na, 50-70%, is the most important, with Ca and Mg 30% of the exchange capacity. The mineral colloids in these soils are, resp.: montmorillonite; gedrite and montmorillonite; kaolinite and montmorillonite. K enters mainly into muscovite-sericite in which it exchanges only to the extent of 3-5%. D. W. Pearce

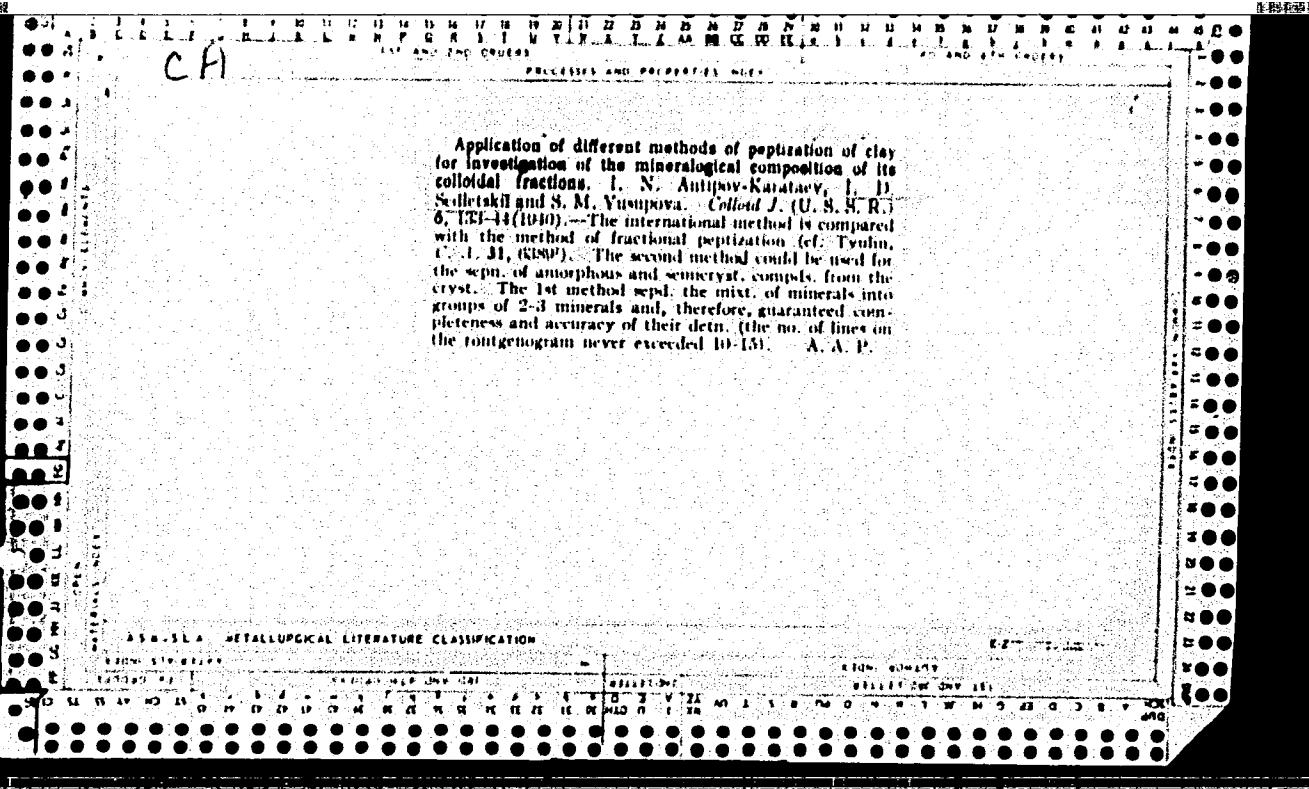
ASH-31A METALLURGICAL LITERATURE CLASSIFICATION

Mineralogical transformations of aluminosilicate gels with time. I. D. Sedletskii. *Mém. sur le sol et la roche*, 68, No. 2, 203 (1939); *Khim. Referat. Zash.* 1939, No. 11, 23. Preliminary results of lab. expts. of the mineralogical transformation of Al-silicate gels with time (for the theory of the genesis of the soil colloidal minerals (pedolites) are given). Expts. showed that montmorillonite, gedrite and other similar minerals can be formed under ordinary conditions. The pedolites (montmorillonite, etc.) are formed in chernozems, chestnut, gray and dark gray, solonetz and other soils in the presence of excess moisture and at an increased temp., under moderate conditions. Quartz is formed in desert and semidesert soils with predominating high temps. (70-80°). The complex Al-silicate, pedolite and the 1-component minerals can be formed in acid and in moist soils (the northern podzol soils, etc.). Minerals of the $\text{Al}(\text{OH})_3$ group are formed in soils in which excessive stagnant moisture predominates.

W. R. Henn

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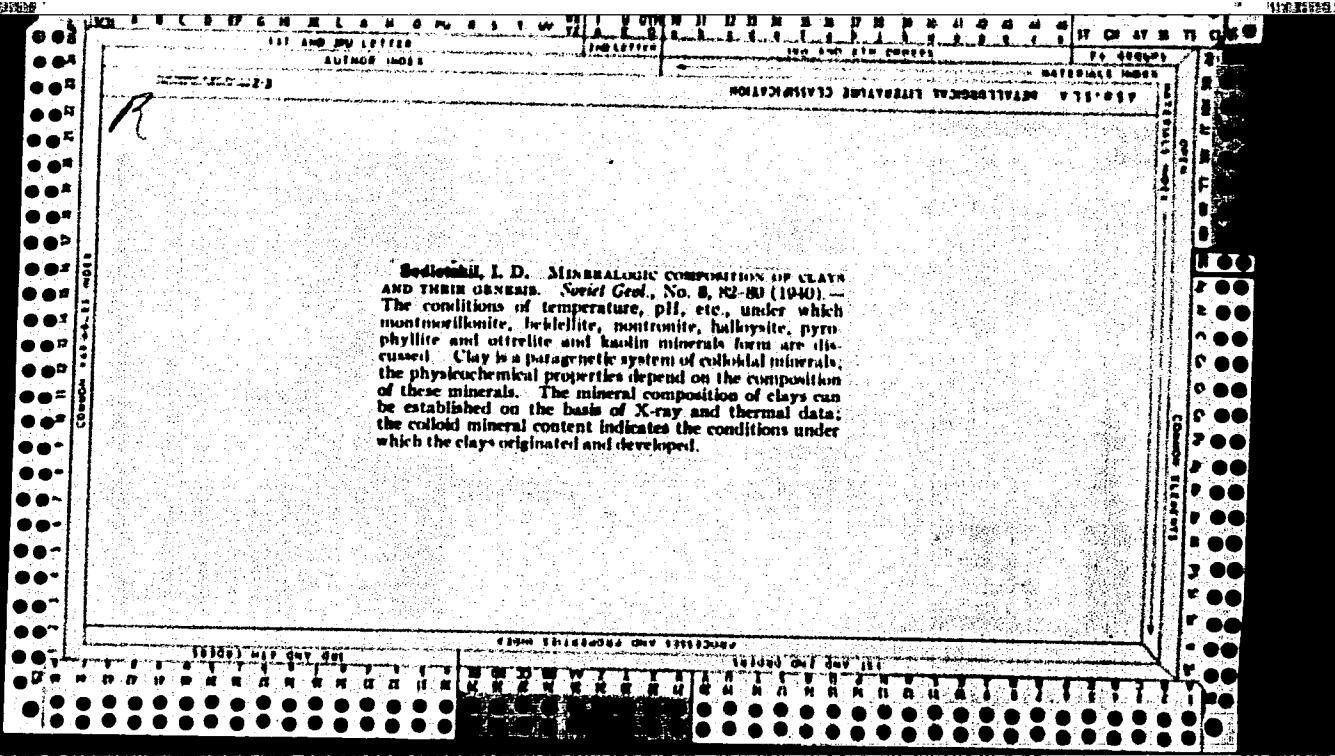
A.C.S.

2000-09-08

Colloid-minerological composition of the soil absorption
complex. I. D. Sosulin. Priroda, 1960, No. 7, pp.
17-27; Khim. Referat. Zhurn., 4 [4] 61 (1941). M. Ilo.

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A.1.5

Equipment: Aggregates

Changes in standard Debye cameras for roentgen-mineralogical investigation of soil and clay colloids. T. D. Sosulin et al., *Zvezdochka Lab.*, 9 [11-12] 1344-45 (1966); *KMK. Referat. Zhar.*, 4 [7-8] 37 (1941).—S. describes the changes made in the standard Debye cameras to produce the X-ray interference rings corresponding to $d \geq 20$ a.u. They permit the study of the roentgenographic and mineralogical composition of soil and clay colloids. M.Ho.

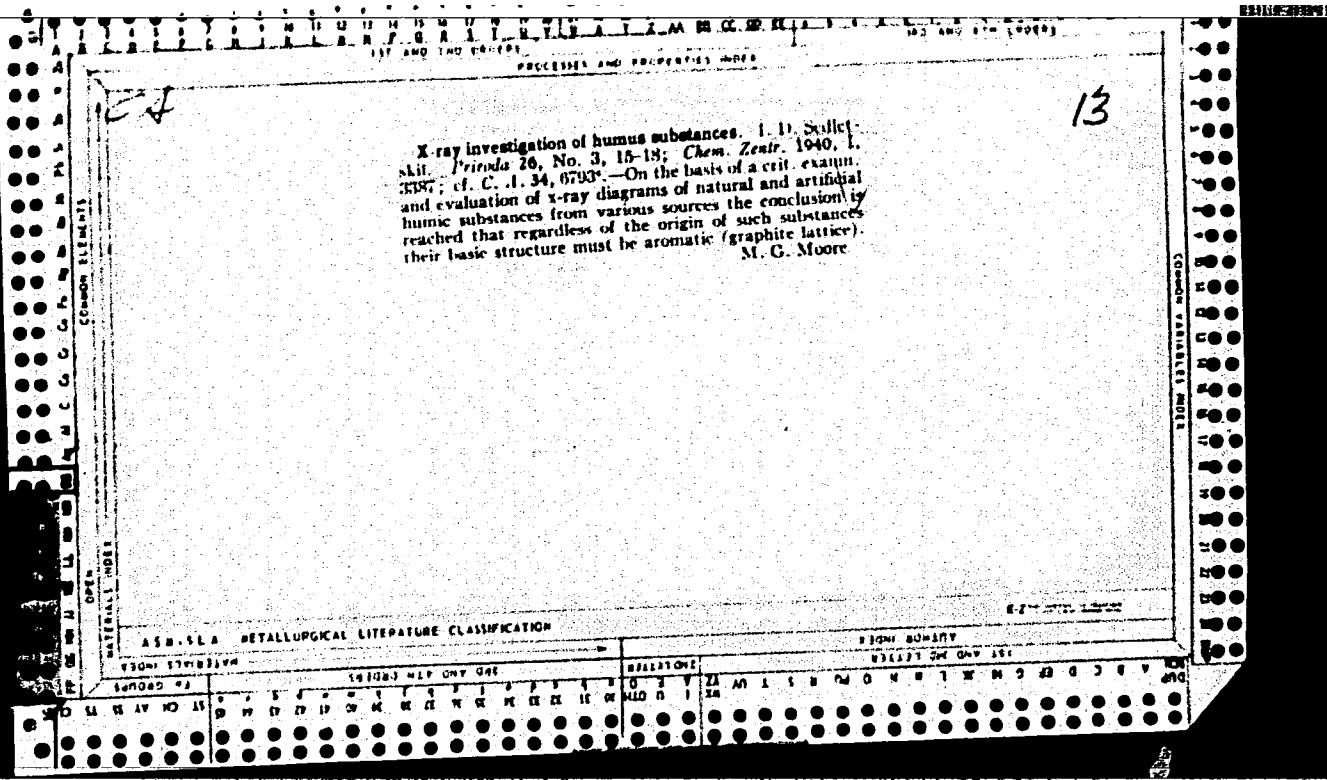
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The genesis of the chernozem and solonetz soils in the Chernigov forest steppe. G. M. Pomoriev and I. D. Sosletova. *Trans. Dokuchaev Soil Inst. (U. S. S. R.)* 24, 243-307 (in English, 388) (1940).—Data are presented on the mineralogical compn. of the fractions, 0.25 to 0.02 and 0.02 to 0.01 mm. of the loess in the region; the chem. compn. of the ground waters; the water-sol. substances, humus and carbonate in the soils on this loess; the exchangeable cations in the exchange complex; mineralogical compn. of the soils; the total compn. of the soils and of a no. of colloid fractions; the minerals of the colloid fractions, their x-ray patterns and the methods used in deciphering these patterns; the compn. of pedotiles (secondary minerals as a result of the soil-forming processes) of leached chernozem. Among the minerals found in the soils are the following: quartz, montmorillonite, gedrite, muscovite, sericite, Mg beidellite, halloysite, goethite, vermiculite, sepiolite, talc-like mineral, dolomite, calcite and magnetite. J. S. Joffe.

850-324 METALLURGICAL LITERATURE CLASSIFICATION

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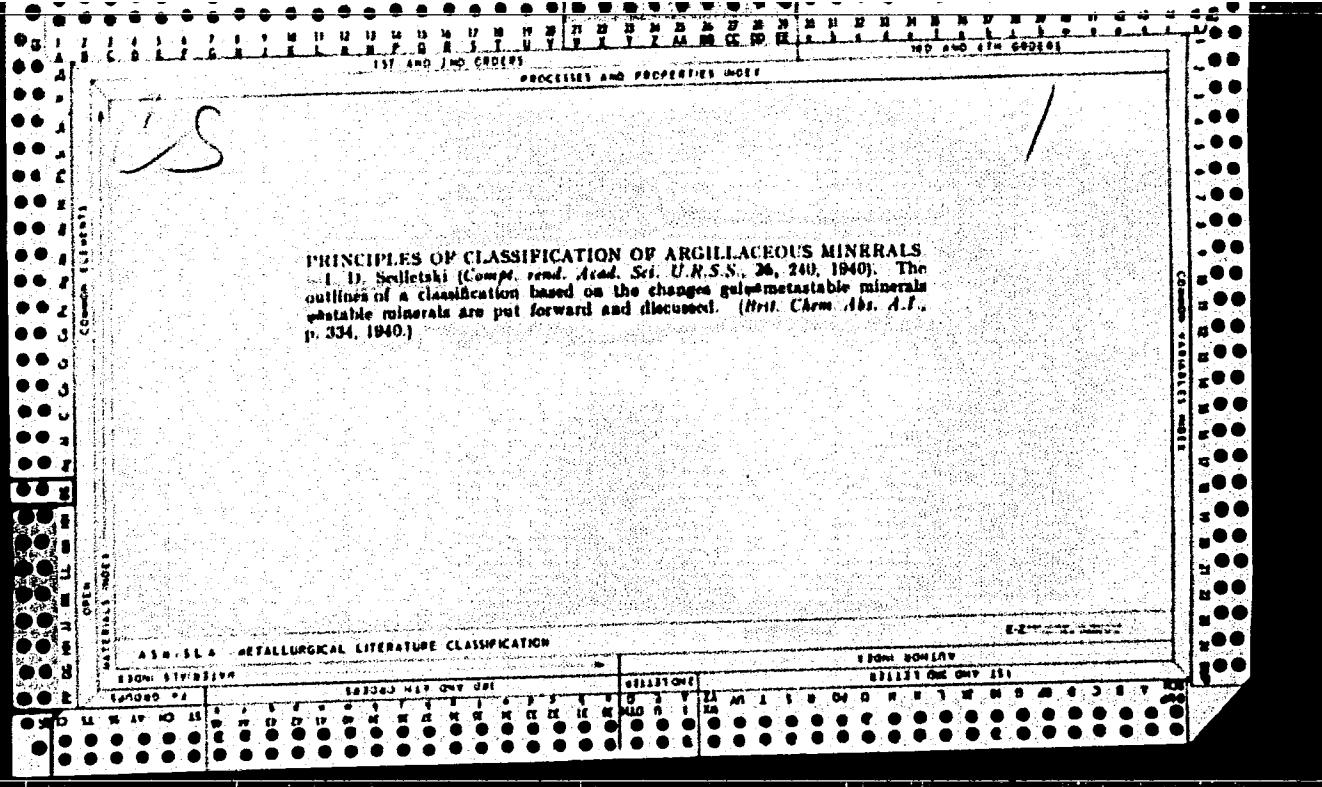
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Calcium montmorillonite in saline soils. J. D. Soltanek. *Compt. rend. Acad. sci. U. R. S. S.* 26, 154-5 (1940). The undisplicable Ca found in saline soil colloids (< 0.2- μ fractions) is combined with montmorillonite. The mineral may be Ca montmorillonite or Ca Mg montmorillonite. These minerals are connected with the presence of a strong alk. medium and occur mainly in Na saline soils. The Ca montmorillonite is evidently converted to Mg montmorillonite when the strong alk. conditions are changed to less alk. and even neutral conditions. I. B. D.

L.R. Adams

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Mineralogical composition of clays and their physical and chemical properties. I. I. Soltorskii and S. Vusitova. *Compt. rend. Acad. sci. U. R. S. S.* 26, 244, 6 (1940) (in English).—An account is given of a detailed investigation of various specimens of Middle-Asian clays and loesses. The mineralogical compn. was detd. separately in the fraction 2-0.2 μ and < 0.2 μ by the thermal and x-ray methods. After prepn. of the clays by international method A and subsequent dispersion with NaOH the fractions were segregated by a centrifuge. The adsorption was detd. according to the universal method of Gehrmanz. The data point to the existence of a definite relation between the phys. and chem. properties of clays on the one hand and the compn. of the respective minerals on the other. The phys. properties are not necessarily connected with the available quantity of colloids. The chem. compn. depends directly on the compn. of their respective minerals. Fersman's contention that the paragenesis of elements depends on the paragenesis of minerals was fully confirmed. Ca and Mg are in the main connected with montmorillonite, Ca and Na with micas, while Mg is also connected with saponite. Variations in the content of these elements as well as the ratio $\text{SiO}_4/\text{M}_2\text{O}_7$ are explained by the differences in the quantity of available minerals and their proportion in the mixt. 4 references. A. H. Krappé

Argillaceous minerals closely approaching halloysite
I. D. Schedrovskii and N. Vysupova. *Geofiz. zhurn.* 61, No. 7, R.S.F.S.R., 1987, p. 1910 (in English). X-ray, thermal and chem. examin. of the colloidal fraction (~ 0.2 μ) of the Ablyk clay gave evidence of the new mineral, **ablykite**, which analyzed SiO_2 45.12, Al_2O_3 36.01, Fe_2O_3 2.88, TiO_2 0.20, MnO trace, CaO 1.10, MgO 1.23, K_2O 2.12, Na_2O 0.154, P_2O_5 0.100, H_2O (in solid soln.) 14.63 and H_2O (by gravimetric) 3.21%. Heating curve closely approach those of halloysite but a comparison of its powder diagram with those of other argillaceous materials shows it to be new. The ignition products of ablykite and halloysite also show different x-ray patterns. The formula is believed to be $\text{R}_2\text{O} \cdot 2\text{R}_2\text{O}_3 \cdot 8\text{SiO}_4 \cdot 6\text{H}_2\text{O}$. K, Mn and Al are fixed in the lattice in non-exchangeable form.

D. W. Pearce

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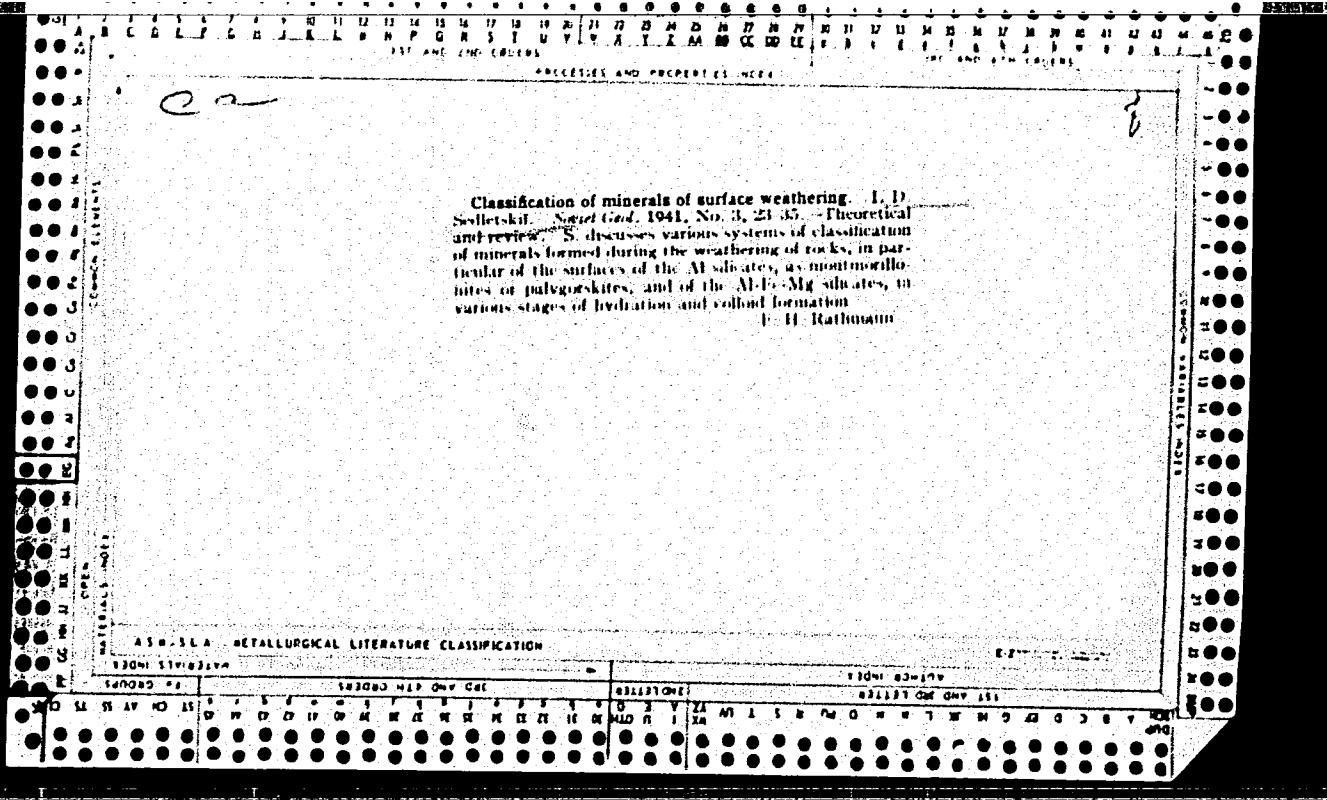
A.C.S.

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Rentgenographic Tables for Identifying Minerals in
Soil Colloids. I. D. SEDLETSKII. Edited by I. N. Ant-
pov-Karataev. Akad. Nauk SSSR, Moscow and Len-
ingrad, 1941. 42 pp. Price 3.70 R. Reviewed in Khar.
Referat. Zhar., 4 [7-8] 57 (1941). M. Ho.

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Electromicrographical studies of soil colloids. I. D. Sellestskii and L. I. Latarnova. *Zhurn. fiz. Khim.* 1941, No. 16, 31-43. For the study of soil colloids with the electromicrograph a thin film, less than 10⁻³ cm., is prepared. The fraction less than 0.2 μ or less than 0.02 μ is used for this purpose. Several drops of these suspensions are placed on a cellulose membrane, less than 10⁻³ cm. in thickness, attached to a metal plate with perforations. The prep. is placed in the electromicrograph and subjected to electron rays. As these pass through the perforations, the electron

waves are diffracted by the colloids giving a system of concentric circles on the fluorescent screen. After the desired sharp focus is obtained, a plate is inserted and a photograph obtained. The exposure lasts a couple of sec. The rings of various intensity can be expressed in terms of const. of the screen (d). For this purpose the Debye rings are measured in mm. and d is calculated from the formula $d = DV \pi / \lambda + DVr$, where r = the radius of the ring on the electromicrogram; D = the distance between rings; V = a const. of the app. (in the case under consideration $D = 1100$ mm. which is the distance from the prep. to the photographic film); λ = the length of the waves. The authors analyze the formula and show the derivation of its members and its application to the data obtained with soil colloids. The kaolinite mineral was used as a standard of comparison. An electromicrogram of humic acid, used by Sellestskii for x-ray studies, shows 7 Debye rings. From data obtained and with the Fuchs formula for humic acid the structural crystallochemical basis of the humic acid is presented. By use of the patterns of the mineral and org. colloids the authors proceed to give a picture of the organomineral gel. On the electromograms the lines of montmorillonite and of humic acid are clearly shown. Various possibilities of attachment of the 2 types of colloids are suggested. An electromicrographical study of red earths does not substantiate the assumption of a no. of investigators that these soils contain free alumina minerals. A study of the changes in the colloid makeup of solonetz caused by heating shows that the characteristic Debye rings of montmorillonite remain even after heating with one exception; the first ring is decreased; it had a d value of 10.5 Å, instead of 15-18 Å.

I. S. Joffe

AIA-314 METALLURGICAL LITERATURE CLASSIFICATION

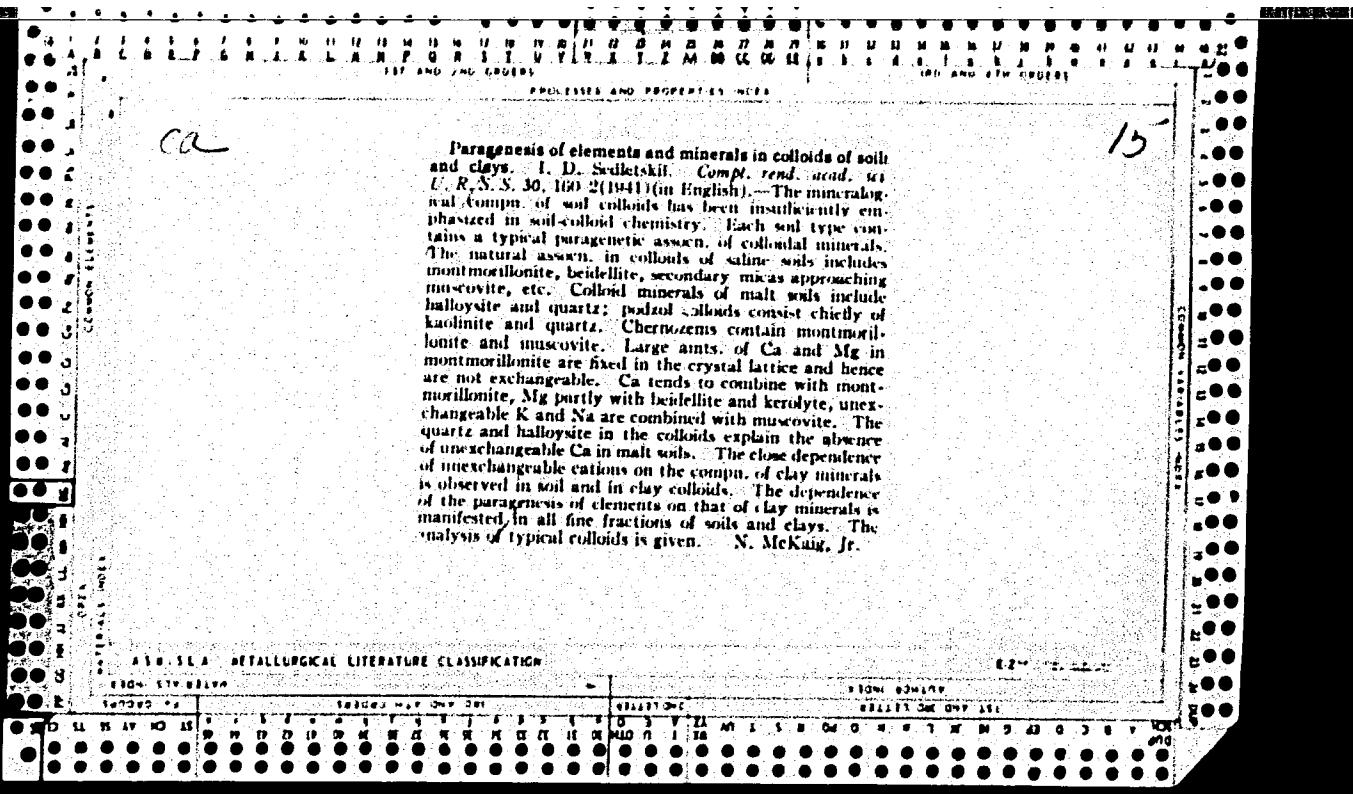
Distribution of copper in the main soil types of the U.S.S.R. I. D. Nekrasov and D. Ivanov. *Zemledelstvo i Kolkhoznoye Stroitelstvo SSSR*, No. 10, 51 (1941) (in English). The Cu content of certain Russian soils was: red earth, 0.01%; chernozem, 0.00028%; peaty-podzolic, 0.0022; highly podzolized sandy, less than 0.0001%. The Cu content was const. throughout the profile of the red earth. It was relatively high in the A₁ horizon, min. in the A₂ horizon and accumulated in the B horizon of podzols. The Cu content decreased with depth in chernozems and increased with depth in the humic-gleyey soils. A subtropical podzol contained 0.0052% Cu and the horizon differences were less pronounced than in the northern podzol. A podzolized gleyey subtropical soil (I) contained 0.008% Cu which was uniformly distributed through the profile. The colloid of the horizons of I contained 0.010-0.0101% Cu. The increased Cu content of the colloid shows the influence of adsorption on the migration of Cu in the profile. Weathering increased the Cu content of olivine basalts from 0.0002% in the rock to 0.0410% in the friable weathered products.

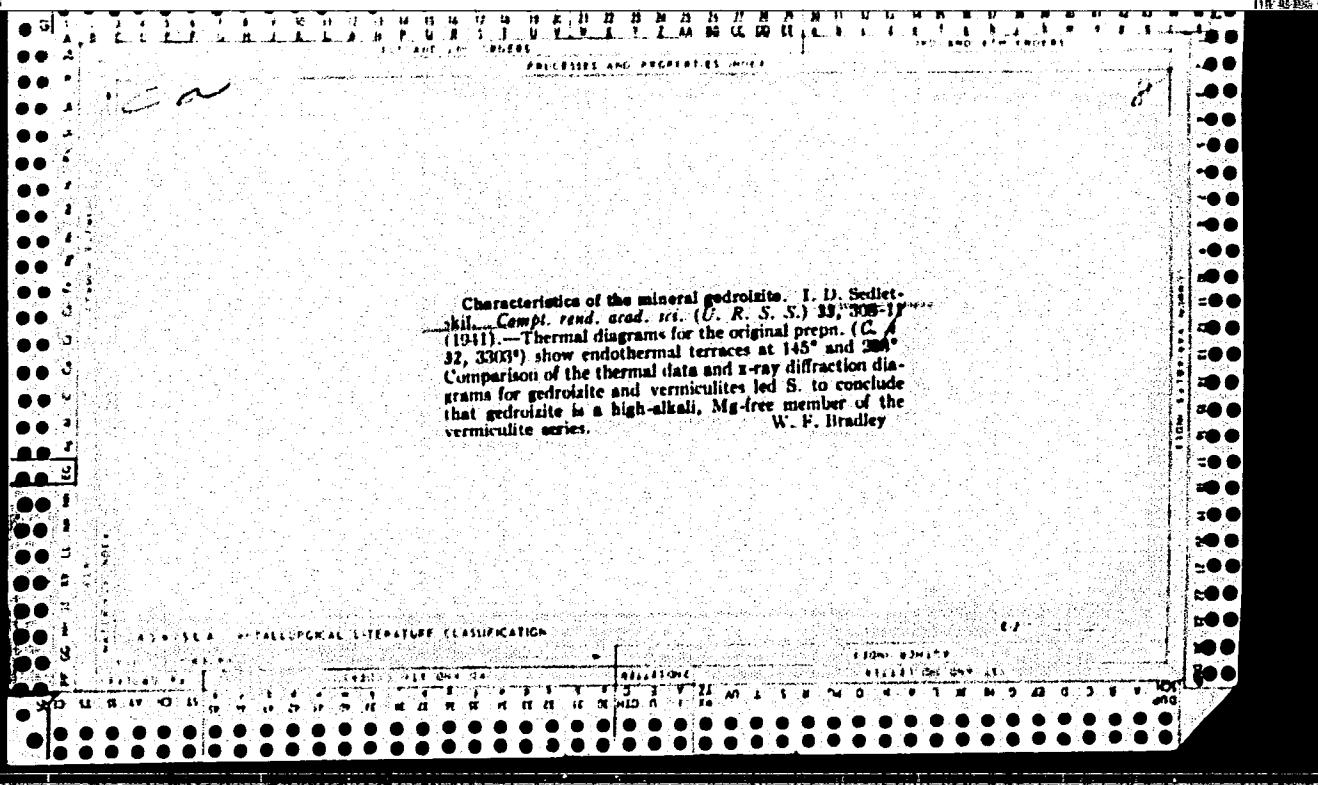
Nelson McKaig, Jr.

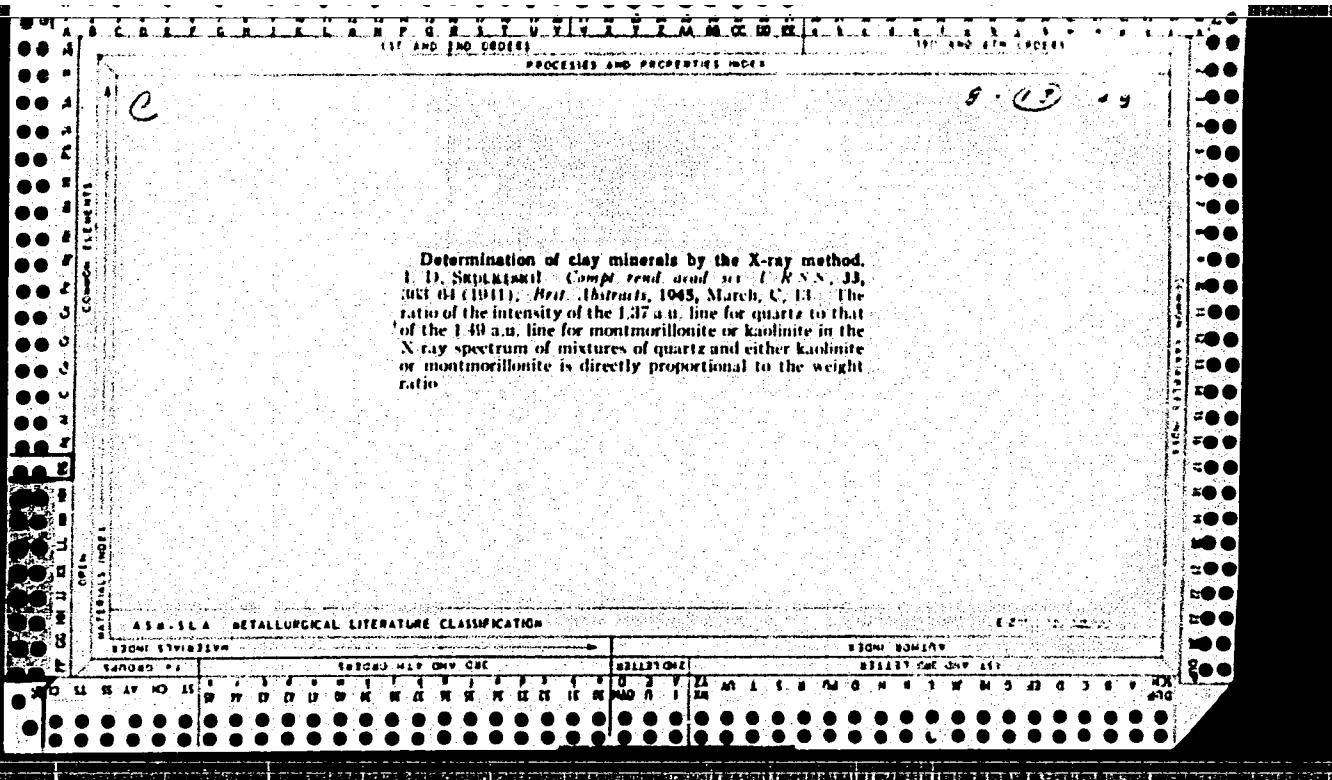
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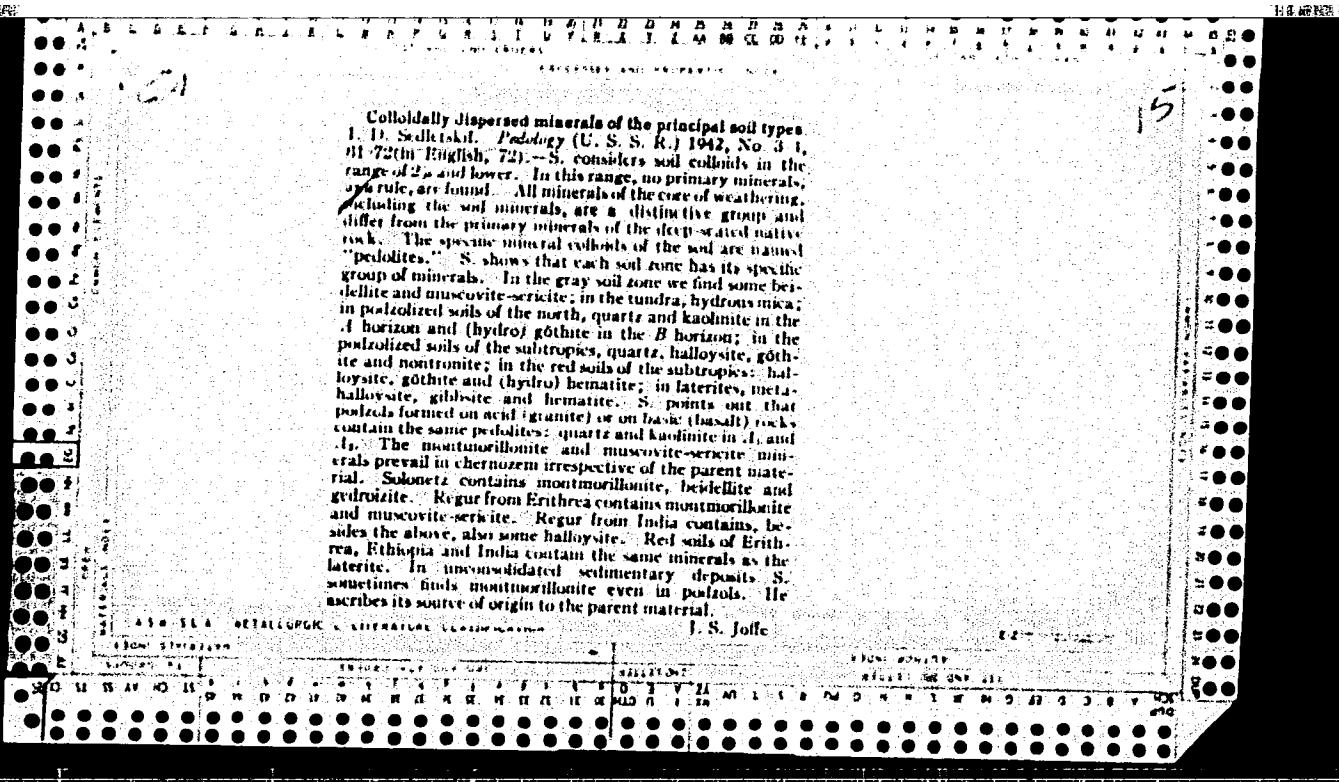
ASA-SEA - METALLURGICAL LITERATURE CLASSIFICATION

ITEM NUMBER	SEARCH KEY WORDS	CLASSIFICATION	SEARCH KEY WORDS
100362 71	SOILS METALLURGY	A 6 3 V 7 H M 1 1 1 0 4 0 4 1 W 2 0 3 1	SEARCH KEY WORDS



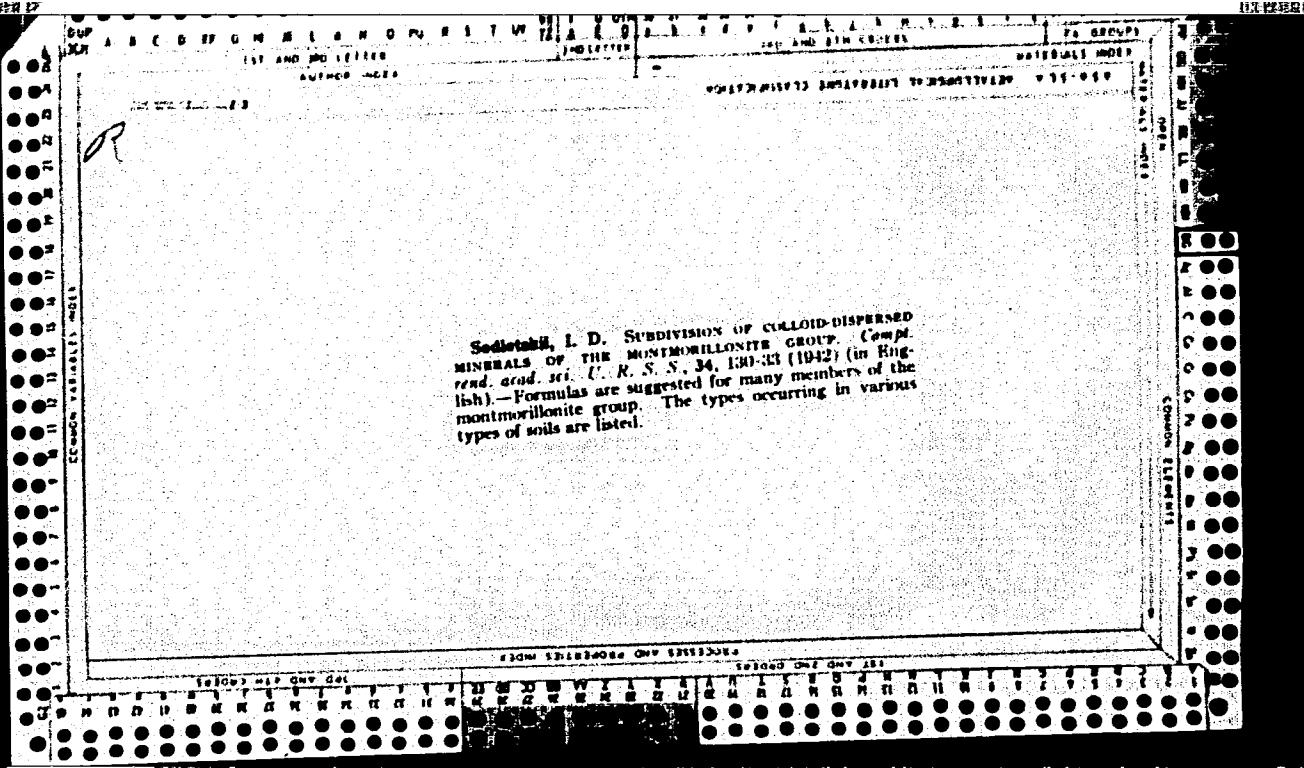






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13n. 16.

Colloid-dispersive mineralogy. Its problems and methods. I. D. Sedletzki (*Compt. rend., Acad. Sci. U.R.S.S.*, 1932, **BS**, 165-170). From a review of the results of recent work on the genesis of highly dispersive formations, e.g., soils, loesses, clays, muds, the following five laws of colloid-dispersive mineralogy are enunciated: (1) the composition of these minerals is governed solely by the character of the weathering process; (2) the composition of the minerals

formed by weathering of different rocks represents paragenetic association of argillites determined by the weathering conditions; (3) the paragenesis of elements forming such fractions depends on the paragenesis of colloid-dispersive minerals; (4) the genesis of the minerals is linked up with the conditions of the medium, e.g., montmorillonite-type minerals are formed under neutral or alkaline conditions, and kaolin-type under acid conditions; (5) the weathering of rocks passes through a series of stages the duration of which is determined by physico-geographical and climatic conditions.

A. R. P.

Thermal characteristics of humic acids. I. N. Kudleiko and G. A. Schmalova [from *Zhur. Fiz. Khim. Zemli*, 1972, **20**, 237]. - Thermographs of humic acids from peat and soil show similar characteristics, viz., endothermic interval 90°-100° due to separation of hygroscopic H_2O , exothermic interval 200°-400° possibly due to combustion of certain ingredients, endothermic interval 430°-630° due to separation of H_2O as a result of transformation of CO_2H , OH and OMe groups, exothermic interval 770°-800° due partly to burning of luminous substances, and a complex exothermic effect at 1100° when humic acids decompose. The data support those obtained by X-ray and electromicrography methods. C. R. H.

Ca

Composition of colloid dispersion minerals and the
metathetic capacity of glauconites from Saratov. I. N.
Antipov-Karatayev and L. D. Feldman. *Comp. rend.
acad. sci. U.R.S.S.* 39, 115-117 (1943).—X-ray patterns
of glauconites before and after satn. by solns. of chlorides
of H, Li, Mg, Na and Ba showed no structural change.
These samples are estd. to consist of 50% glauconite, 40%
montmorillonite and 10% sericite. At pH = 9, the ex-
change capacity of one glauconite is 31.08 milliequiv. of
 $M\text{g BaCl}_2$ per 100 g. material; a change of 1 pH unit
changed its capacity by 4.0 milliequiv. The correspond-
ing figures for vermiculite are 450 and 40 milliequivs.
Cyrus Feldman

ADDED RETALIOPHICAL LITERATURE CLASSIFICATION

04

13

THE COPPER CONTENT OF THE PRINCIPAL SOIL TYPES OF THE
U.S.S.R. AND THE SPECTRAL METHOD OF DETERMINING IT. I.
V. Sedletskii and D. N. Ivanov. Akad. Nauk S.S.R.,
Tbilisinsk. Inst. im. V. V. Dokuchaiwei, Rubznev
diss. Polerykh i Lab. Issledovaniya Pochv No. 1, 140-18
Agrakhim. Metody Issledovaniya Pochv No. 1, 140-18
(1944); cf. C.A. 35, 41409.—The authors make the gen-
eralization that soils of depressions are lower in Cu con-
tent. "Soil cultivation sickness" due to deficiency of
Cu appears when the Cu content drops below $1.2 \times 10^{-4}\%$. Some peat soils contained less than $3 \times 10^{-4}\%$.
A spectral method of detg. Cu is described and illustrated.
I. S. Ioffe

ASA-ELA - METALLURGICAL LITERATURE CLASSIFICATION

A-1

BC

Geodriscite. I. D. Sedletski (Compt. rend. Acad. Sci. U.R.S.S., 1944, No. 308-311).—Geodriscite (II) has a 1.501 ± 0.004 . X-Ray and other data prove it to be a homogeneous mineral without considerable admixture of other constituents. Extraction of (II) with H_2O or 0.01N-HCl removes only small amounts of Na and K, which are thus present in the lattice of (II). 5% aq. KOH removes only small amounts of SiO_4 and Al_2O_3 . (II) will be found in clays and soils only where alkaline conditions prevail. (II) belongs to the minerals of the vermiculite group with Mg replaced completely by K and Na.

L. S. T.

AD-14A. METALLURICAL LITERATURE CLASSIFICATION

26

BTR

1708. **Kolloidno-Dispersnaya Mineralogia.** (Colloidal Dispersions in Mineralogy.) I. D. Sosletskii. 111 pages. 1965. Academy of Sciences of the USSR. Moscow and Leningrad, U.S.S.R. (QE364 Se20k)

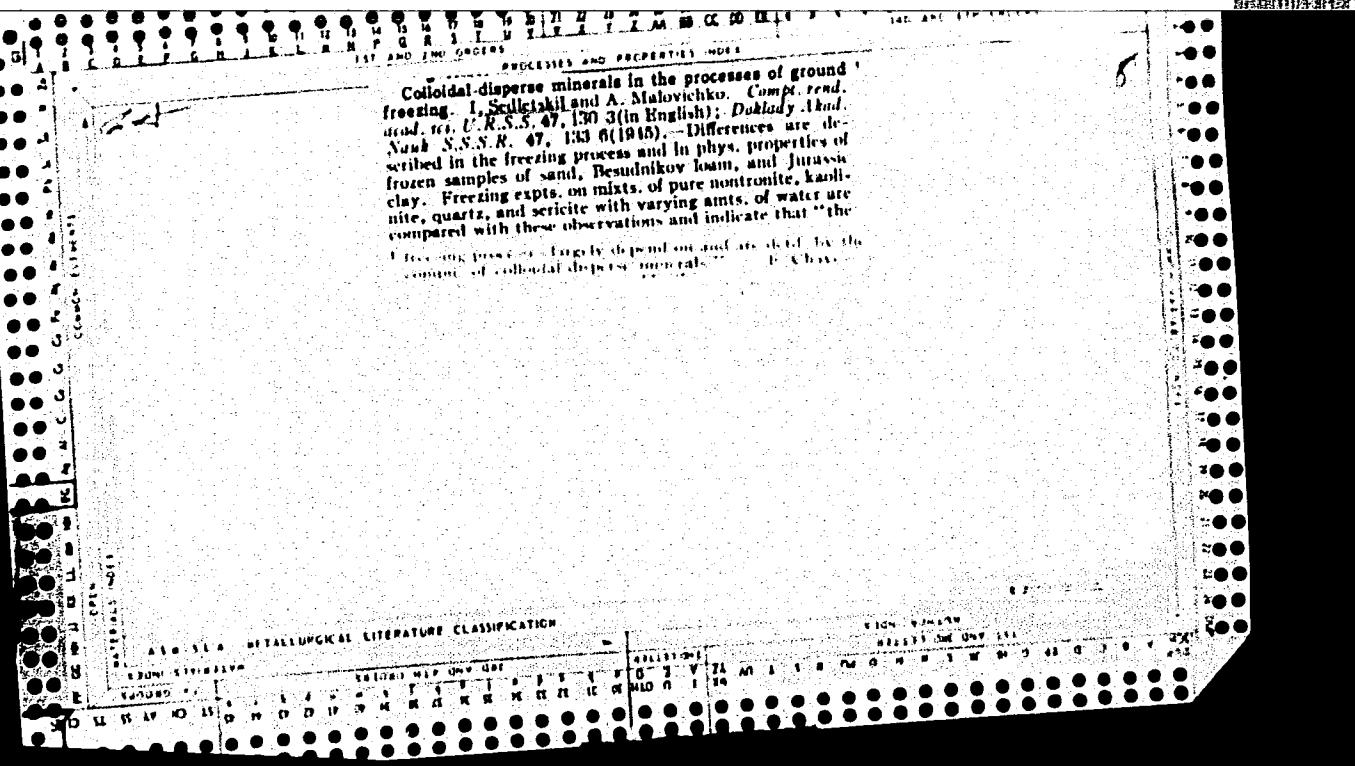
This book is of particular interest to naturalists, geologists, mineralogists, soil scientists, geochemists, biologists, geographers, and physical chemists. It introduces new concepts and presents new ideas concerning physicochemical balances which exist in soils, as a result of complex chemical and biochemical reactions.

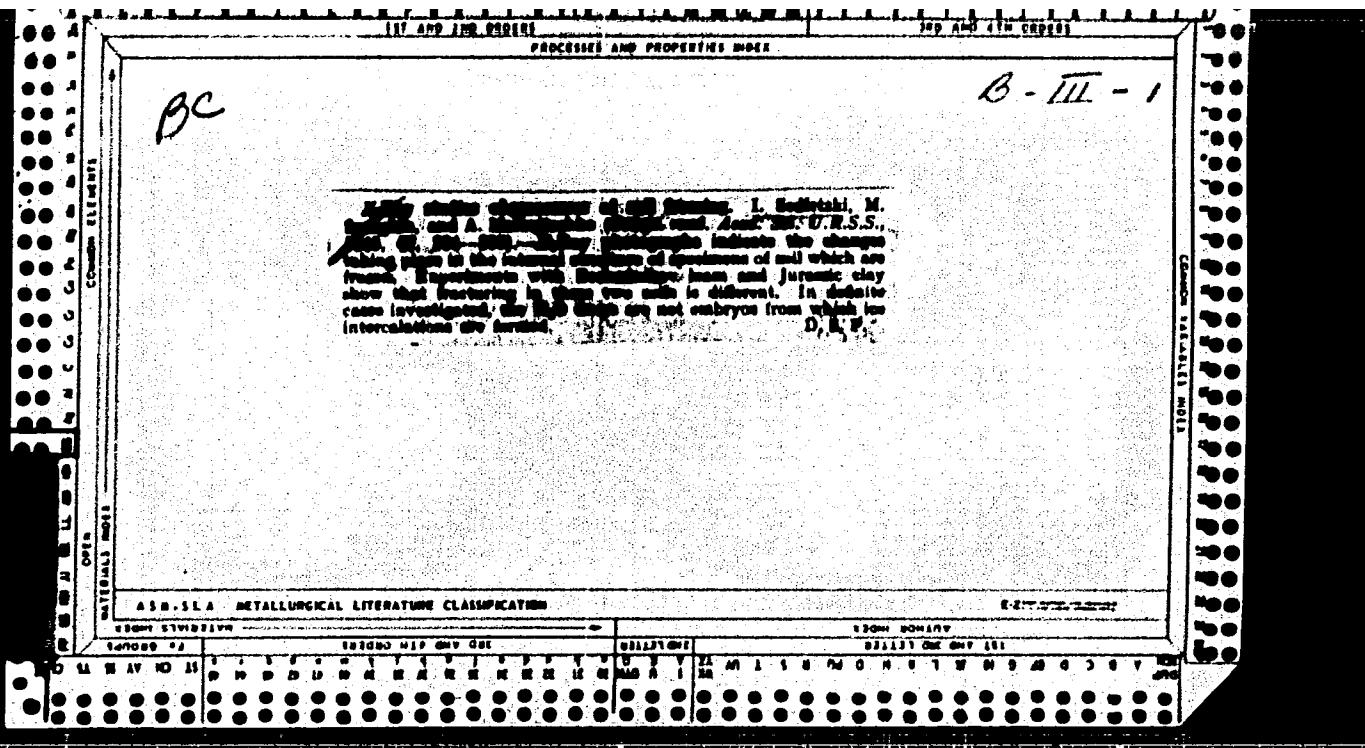
See also:

- 3800 (iron silicate-sulfide-oxide systems)
- 3846 (chemistry of Cr and Ta)
- 4321 (porosity of adsorbent materials)
- 4355 (measuring streaming birefringence and dichroism)
- 4356 (oscilloscope study of adsorption phenomena)
- 4466 (spectra of fluorine-supported flames)
- 4590 (developments, 1950-51)
- 4725 (phosphate chemistry-book)
- 4791 (carbon-black structures)
- 4902 (new energy concept in thermodynamics).

13r 16b

Variation in parameters of montmorillonite as effected by petroleum.
I. D. Sedletzki and S. M. Jusupova (*Compt. rend. Acad. Sci. U.R.S.S.*, 1945, **48**, 27-30).—A no. of clays containing the montmorillonite structure from oil wells, petrolierous regions beyond the boundaries of wells, and from non-petrolierous areas are investigated by X-ray analysis by the Debyo-Scherrer method. The absorption of petroleum causes an extension along the c axis of the montmorillonite lattice. In the natural state, this extension is greater in specimens from oil wells and less in specimens from regions outside the wells, due to the fact that the former absorb heavier hydrocarbon fractions while the latter absorb only volatile components. The effect of petroleum on specimens from non-petrolierous deposits is investigated. Saturation with volatile oil components causes an increase in d_{100} of 4.79 Å. and 7.00 Å. in two clays, while saturation with oil causes an increase in d_{100} of 17.49 Å. and 17.62 Å. The mechanism of absorption of petroleum in montmorillonite is discussed.
S. R. R.





"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1

Physico-Chem. Lab., Soil Inst., Acad. Sci. (1946)

"To the fair and utilization of peat-boggy soils"

Bachyevodensky, No. 12. 1946.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1"

SEDLETSKIY, I. D.

PA 52T75

USSR/Minerals
Geology

Oct 1947

"Rostov Scientific Geological Society," I. D. Sedletskiy, Pres of Soc; K. N. Negadayev, Secy of Soc, $\frac{1}{2}$ p

"Zapiski Vserossiy Mineralo Obshchest" Series 2,
Part LXXVI, No 3

Reports first meeting of Rostov Scientific Geological Society convened at State University imeni V. M. Molotov, 19-22 Apr 1947. Names members of the board, and gives roster of members. Some 200 members admitted. Asserts prime duty of society is to assist State in development of natural mineral resources of USSR.

52T75

SEDLITSKIY, I. D.

PA 16T59

USSR/Soil Science
Copper

May 1947

"The Role of Soil Formation in the Geochemical Distribution of Copper," I. D. Sledtskiy, 5 pp

"Priroda" No 5

Discusses work done by A. E. Fersman (1939) and Arkhangel'skiy and Rozhkova on the distribution of copper in the main types of soil of the Soviet Union, and surface theory of accumulation of copper in the mud of the sea and sedimentary rock.

16T59

CA

Complication of mineral molecules in the process of weathering of massive crystalline mineral deposits. I. D. Sodetski, *Doklady Akad. Nauk S.S.R.*, 50, 511-513 (1971). Examin. (by x-ray and thermal methods) of weathered rocks showed that kaolinite is not invariably the

predominant product of weathering; often it is completely absent. More often one finds such minerals as montmorillonite, illite, and nontronite which are more complex than kaolinite. Possible reactions causing such changes are briefly discussed. In many cases the weathering products are mols. of more complex minerals than the starting materials. The process involves sorption by the initial gel of various elements (Ca, Mg, K, Na, Fe, Al, etc.) from aqueous solns. that always circulate in the cortex of the weathering zone.

G. M. Kosolapoff

SEDLETSKIY, I. D., PROF

TR 1948

USSR/Academy of Sciences
Minerals

Jan 1948

"Academician V. M. Severgin and the Study of the
Paragenesis of Minerals (150th Anniversary of
'First Principles of Mineralogy')," Prof I. D.
Sedletskiy, 2 pp

"Vest Ak Nauk SSSR" No 1

Geologo-mineralogical circles accepted the opinion
that the study of the paragenesis of minerals was
first formulated by the German, Breithaupt, in
1849. However, this is not the case. Study of the
paragenesis of minerals was formulated in 1798 by
the Russian scholar, V. M. Severgin.

FDB

66T2

SEDLETSKIY, I. D.

Apr 1948

USSR/Minerals

Mica

X-Ray, Analysis

"Chrome Micas," Prof I. D. Sedletskiy, ½ p

"Priroda" No 4

Describes work of Whitmore, Berry and Howley on this subject in USA. Investigations were chemical, optical and X-ray. Special attention was paid to fuchsite and mariposite.

78163

FDB

SEDLETSKIY, I. D.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1"

Sedletskiy, I. D. "Priority of the Russian scientist V. M. Sevargin in studying the paragenesis of minerals," uchen. zapiski (ost. n/D gos. un-t im. Molotova), Vol. XI, 1948, p. 7-12

SO: U-3566, 15 March, 53 (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SEDLETSKIY, I.D.

Sedletskiy, I.D. "Mineralogical classification of clays," Uchen. zapiski (Rost. n/D gos. un-t im. Molotova), 'ol. XI, 1948, p. 13-19 ---Bibliog: 15 items

SC: U-3566, 15 March, 53 (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

SEDLETSKIY, I. D.

USSR/Geography
Minerals

Jul/Aug 48

"Geography of Minerals," I. D. Sedletskiy, Rostov
State U, 6 pp

"Iz Ak Nauk SSSR, Ser Geog i Geofiz" Vol XII, No 4

Shows that only colloidal dispersed minerals are
geographically distributed. Discusses scientific
significance of geography of minerals as method for
reconstructing climate and physical and chemical
conditions of past eras. Submitted by Acad A. A.
Grigor'yev 13 Jun 1948.

FDB

1/4923

SEDLETSKIY, I. D. (Co-author)

See: SHAMRAY, I. A.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001447620006-1"
Sedletskiy, I. D. and Shamray, I. A. - "Mineralogy of the Sulin-
sky fire clays," Uchen. zapiski (Rost. n/D gos. un-t im.
Molotova), Vol. XI, 1948, p. 21-35 -- Bibliog: 14 items

SO: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 14, 1949).

Mineralogy of refractory clays from Shis Mt. in the Northern Caucasus. V. S. Samoilovny and L. D. Soljatskif. *Doklady Akad. Nauk S.S.R.* 60, 890-70 (1947).

The occurrence is in the Stavropol Rayon on Shis Mt. near Station Zelenchuk, in two layers between mica sands. The clays are of white, pinkish, or brownish colors, in the latter case colored by org. material, but their refractory properties are very uniform, with a firing temp. not below -1050°. The thermal analysis showed endothermic effects at 130-140 and 870-980°, an exothermic effect at 970-980°. In the parts bearing org. material an addnl. exothermic effect of the C combustion is observed at 780°. Chem. analysis gives clear evidence which agrees with the thermal analysis of the prevailing presence of halloysite and metahalloysite. Also the n of 1.510-1.519 is intermediate between that of halloysite and metahalloysite.

W. Eitel

Classification

Open

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED	SEARCHED AND INDEXED	INDEXED	VOLUME NUMBER	NUMBER ON ONE SHEET
Y	Y	Y	1	1

СУШИК, Г. В.

35915. Rentenograficheskaya charakteristika monogramma iz chasov-para. zhurnal.
Sorok (Lvov), No. 3, 1949, S. 159-61--Bibliogr.: 6 Namv.

SO: Letopis' zhurnal'noj stately, No. 19, 1949

SEDLETSKIY, I. D.

20578 SEDLETSKIY, I. D. Novyye dannyye o sostave, genezise i raspredelenii
monoterrit. Friroda, 1949, No. 6, s. 52-53.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva - 1949

SEDLETSKIY, I. D.

Feb 49

USSR/Minerals
Refractory Materials
Clays

"The Mineralogy of Refractory (Clay) Slates of the Baksan Deposit in the Northern Caucasus," P. S. Samodurov, I. D. Sedetskiy, Rostov/Don State U imeni Molotov, 3 pp.

"Dok Ak Nauk SSSR" Vol LXIV, No 5

Subject deposit is located in Kabardinskiy, Azerbaydzhan SSR, on left bank of Baksan River, opposite village of Bylyy. Analyzes cryptocrystalline substance which is the basis of this deposit, and determines that it belongs to the monothermite class. Submitted by Acad D. S. Belyankin, 29 Nov 48.

PA 29/49T74

X-ray characteristics of the mineral "monothermite."
I. D. Sedletskii (Vsesoziennyi Univ. im. A. M. Molotova). Doklady Akad. Nauk SSSR 67, 353 (1952).
D. S. Belyankin (Byull. Gosudarstv. Kemiich. Inst. No. 1, 10 (1952) described monothermite as a new independent mineral in the refractory class of Chassov-Yar, with a characteristic endothermic effect on the dehydration

curve at 550°, but without an exothermic effect at higher temps. The compn. is given as $0.2RO.Al_2O_3.3SiO_2.1Al_2O_3.10\text{H}_2O$ ($RO = K_2O, Na_2O, MgO, CaO$). The same mineral was recently discovered in many other sedimentary deposits, e.g. in the Mal'kop-Savropol region and the Don Basin, with the same thermal indecent properties. The x-ray powder diagrams show characteristic differences from muscovite, kaolinite, and illite; especially characteristic is the line $d \approx 10.31 \text{ \AA}$, while other lines are near some of muscovite and kaolinite. Monothermite is apparently intermediate between these 2 minerals, although its independent character is beyond doubt.

W. Ritel

C A

8

Mineralogy of white clays of the Rostov region. I. D. Suletskii. *Doklady Akad. Nauk S.S.R.* 69, 707-72 (1949).—The fractions below 0.001 mm. size of particles were examd. by microscopic, chem., x-ray, and thermal methods. In 14 of the examd. 16 deposits, monothermite was observed; one contained halloysite, another one kaolinite as the characteristic clay mineral. The monothermite clays show endothermic effects at 110°-140°, and 200°-500°; an exothermic effect at 900°-1100° is entirely, or nearly entirely, absent. The x-ray diagrams of the monothermite clays are identical with those of the type mineral of Chassov-Yar (Belyankin), with addnl. highly disperse quartz. The chem. analyses of the Rostov monothermite clays are also similar to that given for the Chassov-Yar mineral, but with rather wide variations in the $\text{SiO}_4/\text{Al}_2\text{O}_3$ ratio (1.2-1.3 to 2.9), while Belyankin postulates 1:3. The $(\text{Ca}, \text{Mg}, \text{K}, \text{Na})\text{O}/\text{Al}_2\text{O}_3$ ratio varies between 0.035 and 0.3:1 (Belyankin postulates

0.2). The water content is in most cases 2 mols. The halloysite clay shows only an endothermic effect at 600°, and an exothermic effect at 930°; the kaolinite the corresponding effects at 900 and 1000°. The compn. of these clays is normal, with highly dispersed quartz, and metahalloysite in the halloysite clay, indicated by a lower than normal water content. The genesis of the monothermite clays is explained by the weathering and elutriation of the Don Basin slates, while the kaolinite is derived from the cryst. (granite) rocks of the Asov massive. All examd. clays are high- or moderate refractory.

W. E. G.

Magnesium monothermitite. I. D. Nechaevskii and P. S. Samoilova (Molotov State Univ., Rostov-on-Don). *Zapiski Versysay Mineral. Obshchestva (Mem. russ. russ. mineral.)*, 78, 273-6 (1949); cf. *Bekranki*, Ed., 32, 57-61. While the original monothermitite always contained K, a new K-free, Mg-rich containing variety was detected in the Mal'kop sedimentary series (middle Oligocene), in septarian horizons, with calcite, clays, and marl. The mineral is associated with the common accessory minerals of fine-grained sediments of this kind. The fractions below 0.1 gave the typical thermal curve of monothermitite with two endothermic effects at 140° and 310°. The exothermic heat effect at 310 and 400° indicates some organic substance, and the slight heat absorption at 300° the presence of some geothite. The chem. analysis corresponds to the formula $0.23\text{MgO} \cdot \text{Al}_2\text{O}_5 \cdot 2.8\text{SiO}_2 \cdot 2.6\text{H}_2\text{O}$. The $\text{Mg}/(\text{Mg} + \text{Al})$ content of Mg-monothermitite is higher than that of the ordinary (K) variety of the mineral. The size of the cyclic aggregates is 1.57-1.60, the brightening about 0.32-0.33. W. Kittel

SEDLETSKY, I.D.

2808. New variety of a clay mineral.—I. D. SEDLETSKY (*Prirudy, Akad. Nauk. U.S.S.R.*, 39, No. 10, 48, 1950; abstracted *Miner. Abstr.*, 12, 239, 1954). The name medmontite (*Miner. Abstr.*, 11, 124, 1953) is replaced by cupromontmorillonite (*Miner. Mag.*, 29, 979, 1953).

Mineralogical determination of sediments. I. I.
Sedrak'yan and P. S. Samodurov (Rostov, State Univ.)
Zapiski Vsesoyuz. Mineral. Obshchestva (Mém. soc. russ.
mineral.) 79, 137-41 (1960).—The detn. of sedimentary
rocks is based on an accurate identification of the clay
minerals, especially by the differential thermal analysis,
for which characteristic examples are given, with halloysite,
metahalloysite, montmorillonite, and monothermite, from
different horizons, schists, slates of the N. Caucasus and
the Don Basin. Av. chem. formulas are given for the
clay minerals. The supremacy of this method over the
paleontological detn. is due to the frequency of hori-
zons which are entirely lacking fossils. It is an important

supplement also to the methods of the heavy minerals.

W. Eitel

SEDLETSKIV, I. D.

C.L.C. ✓ New mineral magnymontmorillonite. I. D. Sedletskil. *Priroda* 40, No. 2, 61-2(1951); *Mineralog. Abstr.* 30, 239 (1954).—A magnesium variety of montmorillonite from Pliocene beds in the Talar republic was described by Kirsanov (cf. *C.A.* 43, 9775). K.'s analysis gives a formula $0.3\text{MgO} \cdot \text{Al}_2\text{O}_3 \cdot 5\text{SiO}_2 \cdot 2.5\text{H}_2\text{O}$. Yellowish brown flakes have neg. birefringence 0.020-0.040, endothermal effects at 120-150° and 750-770°, and the x-ray pattern of montmorillonite. It is now named magnymontmorillonite.
K. L. C.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1

SPD/EMM, J. D.

Loess

"Colloidally-dispersed minerals and colian origin of loess in the lower Dan river.,
Bohl. AN SWSR, 81, No. 5. 1951

MONTHLY LIST OF RUSSIAN ACCESSIONS. Library of Congress, April 1958. UNCLASSIFIED.

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1"

SEDETSKIY, I. D. PROF.

LOMNOsov, Mikhail Vasil'evich, 1711-1765.

Priority of A. V. Lomonosov in the study of colloidal minerals. Vest. AN SSSR 22 no. 3, 1952.

Monthly List of Russian Accessions. Library of Congress October 1952.

SEDLETSKIV, I.D.

✓ Colloidally dispersed minerals as an aid in solving several problems of rock metamorphism. I. D. Sedletskii (V. M. Molotov State Univ., Rostov-on-Don). *Doklady Akad.*

Nauk S.S.R. 86, 621-3 (1982); cf. *C.A.* 47, 110944. — S. presents the following table on the upper limits of temps. (for normal pressures; for higher pressures the temps. would be lower) at which the breakdown of the colloidally dispersed minerals takes place: halloysite 50°; hydrohematite 220°; hydrogoethite 350°; kaolinite 500°; metahalloysite 600°; α -kerolite 700°; montmorillonite 725°; sepiolite 800°; nontronite 850°; illite 950°. Following the presence of these minerals in metamorphosed rocks offers an opportunity to det. the temp. at which metamorphism takes place. In clays, halloysite present indicates a temp. of <50°; when metahalloysite is found, a temp. of <350°; kaolinite in argillite indicates a temp. of <600°. S. refutes the idea of anthracite being formed at 600° and higher. Kaolinite found in some anthracite assocn. indicates a temp. of 500°. S. suggests the possibility of making up a scale of temps. in the respective rock deposits by using x-ray and electron microscope technique to det. the colloidally dispersed minerals.

life

J. S. Joffe

SEDLETSKIY, I.D.

U.S.S.R.

[Mineralogy of the clay sediments of the Carboniferous of the Donets Basin. 1. D. Sedletskiy. *Voprosy Petrol., Mineral. Akad. Nauk S.S.R.* 2, 123-34 (1963).—The mineralogical composition of the Middle and Upper Carboniferous formations is dark-gray colored and rich in coal inclusions. Their mineralogical composition was identified by combined x-ray diffraction and differential-thermal methods, further by optical and electron-microscopic examination, and bulk chemical analyses. The coal in these clay horizons is not graphitized. It is relatively easily oxidized by 83% H₂O₂ at room temperature. In the fractions below 1μ, the characteristic endothermic effect at 260° which coincides with that of the dehydration of goethite cannot be explained by the presence of this mineral which cannot be expected under the strongly reducing conditions of the clay sedimentation. The endothermic effects at 120, 650, and 910° indicate the presence of illite; the endothermic effect at 560° and the exothermic peak at

(cont'd)

2

DC-001

I.D. SEDLETSKII

800° indicate kaolinite. Siderite is identified by the endothermic effect at 890°, the exothermic peak at 350°, 500°, 700° indicate the combustion of coal material. The x-ray analysis confirms the presence of much illite. Little kaolinite and saponite finely dispersed quartz. The electron microscope shows further another clay mineral, perhaps nontronite. The chem. analyses indicate that the H₂O content of these illites is higher than in normal illite. Most of the illites show K₂O > Na₂O, also occasionally CaO > K₂O (Grigor'ev, C.A. 43, 3318A). A typical Donets Basin illite shows $\gamma = 1.665$; $\alpha = 1.572$, in comparison with "normal" illite with $\gamma = 1.588$ to 1.610, and a higher birefringence (Belyankina, Zapiski Vsesoy. Mineralog. Obschchestva, 71, No. 1/2, (1942)). Monothermite with endothermic effects at 160 and 550° is observed only in one sample. The Chajov-Yar clays show in the electron microscope and the x-ray diagrams a complex mix of a mica-like mineral with the kaolinite and quartz. The typical "monothermite" is distinguished from illite by its lower R₂O and RO, but higher H₂O contents. The first interference line (d. ~ 10.34 Å.) is different from that of illite (d. = 0.08 Å.). Also the optical constants are different, and S. considers monothermite to be an independent mineral. In the fractions below 1 μ the monothermite appears in the clays of Chajov-Yar associated with some montmorillonite.

3/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1

OBRUCHEV, V.A., akademik; SEDLETSKIY, I.D., professor.

Colloidal minerals. Priroda 41 no.7:87-90 J1 '53.

(MLRA 6:6)
(Mineralogy)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001447620006-1"

SEDLETSKII, I. D. and DZHUMAYEV, V. I.

"Colloidal-Dispersed Minerals of Clay Deposits of the Carboniferous in the Don Basin," Dokl. AN SSSR, 89, No.1, pp. 155-58, 1953. Rostov State U. im. Molotov.

States that carboniferous formations reflect mainly a compn of microdetrital and accessory minerals, but there are isolated indications ~~thx~~ of mineral compns with only thinly dispersed agrillites and sillstones. Presented by Acad D.S. Belyankin.

259T47

SEDLETSKIY, I. D.

"Colloidal-Dispersed Minerals and the Origin of Loess in Rostov Oblast'," Rostov State U. im. Molotov, Dokl. AN SSSR, 90, No.2, pp. 275-78, 1953

States that variegated composition of colloidal-dispersed minerals of Rostov Oblast' loess are satisfactorily explained from the positions held in the Aeolian theory of V. A. Obruchev. Presented by Acad V.A.Obruchev 7 Mar 53.

260T61